

**0480-0524- Boethius, Severinus - De Arithmetica Libri Duo  
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[1079]

**AN. MANL. SEV. BOETHII DE ARITHMETICA LIBRI DUO,**

**PRAEFATIO. [1079A]**

*In dandis accipiendisque muneribus, ita recte officia, praecipue inter eos qui sese magnificiunt, aestimantur, si liquido constabit, nec ab hoc aliud quod liberalius afferret inventum, nec ab illo unquam, quod jucundius benevolentia complecteretur acceptum. Haec ipse considerans, attuli non ignava opum pondera, quibus ad facinus nihil instructius est, cum habendi sitis incanduit. Ad meritum nihil vilius, cum ea sibi victor animus calcata subjecit, sed ea quae ex Graecarum opulentia litterarum, in Romanae orationis thesaurum sumpta conveximus. Ita enim mei quoque operis mihi ratio constabit, si quae ex sapientiae doctrinis elicui, sapientissimi iudicio comprobentur. Vides igitur ut tam magni laboris effectus, tuum tantum exspectet examen, nec in aures prodire [1079B] publicas, nisi doctae sententiae astipulatione nitatur. In quo nihil mirum videri debet, cum id opus quod sapientiae inventa persequitur, non auctoris sed alieno incumbit arbitrio. Suis quippe instrumentis res rationis expenditur, cum iudicium cogitur subire prudentis. Sed huic munusculo, non eadem quae caeteris imminent artibus munimenta constituo. Neque enim fere ulla, sic cunctis absoluta partibus, nullius indiga, suis tantum est scientia nixa praesidiis, ut non caeterarum quoque artium adjumenta desideret. Nam in effigiandis marmore statuis, alius excidendae molis labor est, alia formandae imaginis ratio. Nec ejusdem artificis manus, politi operis nitor exspectat. Ac depingendae manibus tabulae commissae fabrorum, caerae rustica observatione decerptae, colorum fuci mercatorum solertia perquisiti, [1079C] lintea operosis elaborata textrinis, multiplicem materiam praestant. Nonne idem quoque in bellorum visitur instrumentis? Hic spicula sagittis exacuit, illi validus thorax nigra gemit incude. Ast alius crudi umbonis tegmina, proprii laboris orbi infigenda mercatur, tam multis artibus ars una perficitur. Ast nostri laboris absolutio longe ad faciliorem currit eventum. Tu enim solus manum supremo operi impones, in quo nihil de decernentium necesse est laborare consensu. Quamlibet [1080A] enim hoc iudicium multis artibus probetur excultum, uno tamen cumulatur examine. Experiare igitur licet quantum nobis in hoc studio longis tractus otis labor adjecerit. An rerum subtilium fugas exercitatae mentis velocitas comprehendat? Utrum jejunae macies orationis, ad ea quae sunt caligantibus impedita sentiis, expedienda sufficiat? Qua in re mihi alieni quoque iudicii luca quaeruntur, cum tu, utrumque peritissimus litterarum, possis Graiae orationis expertibus, quantum de nobis iudicare audeant, sola tantum pronuntiatione praescribere. At non alterius obnoxius institutis, arcissima memetipse translationis lege constringo, sed paululum liberius evagatus, alieno itineri, non vestigiis insisto. Nam et ea quae de numeris a Nicomacho diffusius disputata sunt, moderata brevitate collegi. Et quae transcurra [1080B] velocius angustiore intelligentiae praestabant aditum, mediocri adiectione reseravi, ut aliquando ad evidentiam rerum, nostris etiam formulis ac descriptionibus uteremur. Quod nobis quantis vigiliis ac sudore constiterit, facile sobrius lector agnoscat. Cum igitur quatuor matheseos disciplinarum, de arithmetica, quae est prima, praescriberem, tu tantum dignus eo munere videbare, eoque magis in errato opus esse intelligebam. Nam etsi apud te facilis venire locus esset, aliquando tamen ipsam formidabat facilitatem suspecta securitas. Arbitrabar enim nihil tantae reverentiae oblatum iri oportere, quod non elaboratum ingenio, perfectum studio, dignum postremo tanto otio videretur. Non igitur ambigo quin pro tua in me benevolentia supervacua reseces, hiantia suppleas, errata reprehendas, commode [1080C] dicta, mira animi alacritate suscipias. Quae res impulit pigram consilii moram. Nimios enim mihi fructus placitura restituent. Novi quippe quanto studiosius nostra quam caeterorum bona diligamus. Recte ergo quasi aureos Cereri culmos, et maturos Baccho palmites, sic ad te rudimenta novi operis transmisi. Tu tantum paterna gratia nostrum provehas munus, ita et laboris mei primitias doctissimo iudicio consecrabis, et non majore censebitur auctor merito quam probator.*

**LIBER PRIMUS. [1079]**

**CAPUT PRIMUM. Divisio mathematicae. [1079C]**

Inter omnes priscae auctoritatis viros qui, Pythagora duce, puriore mentis ratione viguerunt, constare [1079D] manifestum est haud quemquam in philosophiae disciplinis ad cumulum perfectionis evadere, nisi cui talis prudentiae nobilitas quodam quasi quadrvio vestigatur, quod recte solertiam intuentis non latebit. Est enim sapientia rerum quae sunt suique immutabilem [1080C] substantiam sortiuntur comprehensio veritatis. Esse autem illa dicimus, quae nec intentione crescunt, nec retractione minuuntur, nec variationibus permutantur, sed in propria semper vi, suae se naturae [1080D] subsidiis nixa custodiunt. Haec autem sunt qualitates, quantitates,

formae, magnitudines, parvitates, aequalitates, habitudines, actus, dispositiones, loca, tempora, et quidquid adunatum quodammodo corporibus invenitur. Quae ipsa quidem natura incorporea sunt, [1081A] et immutabilis substantiae ratione vigentia, participatione vero corporis permutantur, et tactu variabilis rei, in vertibilem inconstantiam transeunt. Haec igitur (quoniam ut dictum est, natura immutabilem substantiam vimque sortita sunt) vere proprieque esse dicuntur. Horum igitur, id est, quae sunt proprie, quaeque suo nomine essentiae nominantur, scientiam, sapientia profitetur. Essentiae autem geminae partes sunt, una continua, et suis partibus juncta, nec ullis finibus distributa, ut est arbor, lapis, et omnia mundi hujus corpora, quae proprie magnitudines appellantur. Alia vero disjuncta a se, et determinata partibus, et quasi acervatim in unum redacta concilium, ut grex, populus, chorus, acervus, et quidquid eorum quorum partes propriis extremitatibus terminantur, et ab alterius [1081B] fine discretae sunt. His, proprium nomen est multitudo. Rursus multitudinis alia sunt per se, ut tres vel quatuor, vel tetragonus, vel quilibet numerus, qui, ut sit, nullo indiget. Alia vero per seipsa non constant, sed ad quiddam aliud referuntur, ut duplum, ut dimidium, ut sesquialterum, vel sesquiterium, et quidquid tale est, quod nisi relatum sit ad aliud, ipsum esse non possit. Magnitudinis vero, alia sunt manentia, motuque carentia, alia vero, quae mobili semper rotatione vertuntur, nec ullis temporibus acquiescunt. Horum ergo, illam multitudinem quae per se est, arithmetica speculatur integritas. Illam vero, quae ad aliquid, musici modulaminis temperamenta pernoscent. Immobilis vero magnitudinis, geometrica notitiam pollicetur. Mobilis scientiam, astronomicae disciplinae [1081C] peritia vindicavit. Quibus quatuor partibus si careat inquisitor, verum invenire non possit, ac sine hac quidem speculatione veritatis nulli recte sapiendum est. Est enim sapientia earum rerum quae vere sunt, cognitio et integra comprehensio. Quod haec qui spernit, id est, has semitas sapientiae, ei denuntio non recte philosophandum. Siquidem philosophia est amor sapientiae, quam in his spernendis ante contempserit. Illud quoque addendum arbitror quod cuncta vis multitudinis ab uno progressa termino, ad infinita progressionis augmenta concrevit. Magnitudo vero, a finita inchoans quantitate, modum in divisione non recipit. Infinitissimas enim sui corporis suscipit sectiones. Hanc igitur naturae infinitatem, indeterminatamque potentiam philosophia sponte [1081D] repudiat. Nihil enim quod infinitum est vel scientia potest colligi, vel mente comprehendi. Sed hinc sumpsit sibi ipsa ratio, in quibus possit indagatricem veritatis exercere solertiam. Delegit enim de infinitae multitudinis pluralitate, finitae terminum quantitatis, et interminabilis magnitudinis sectione rejecta, definita sibi ad cognitionem spatia depoposcit. Constat igitur quisquis haec praetermiserit, omnem philosophiae perdisse doctrinam. Hoc igitur illud quadrivium est, quo iis viandum sit, quibus excellentior animus a nobiscum procreatis sensibus, ad intelligentiae certiora perducitur. Sunt enim quidam gradus certaeque progressionum dimensiones, quibus ascendi progredique possit, ut animi illum oculum, qui (ut [1082A] ait Plato) multis oculis corporalibus salvari constituique sit dignior, quod eo solo lumine vestigari vel inspicere veritas queat. Hunc, inquam, oculum demersum, orbatumque corporeis sensibus, hae disciplinae rursus illuminent. Quae igitur ex his prima discenda est, nisi ea quae principium matrisque quodammodo ad caeteras obtinet portionem? Haec autem est arithmetica. Haec enim cunctis prior est, non modo quod hanc ille hujus mundanae molis conditor Deus, primam suae habuit ratiocinationis exemplar, et ad hanc cuncta constituit, quaecumque fabricante ratione, per numeros assignati ordinis invenere concordiam; sed hoc quoque prior arithmetica declaratur, quod quaecumque natura priora sunt, his sublatis simul posteriora tolluntur. Quod si posteriora pereant, nihil de [1082B] statu prioris substantiae permutatur, ut animal prius est homine. Nam si tollas animal, statim quoque hominis natura deleta sit. Si hominem sustuleris, animal non peribit. Et e contrario ea semper posteriora sunt quae secum aliud quolibet inferunt, ea priora quae, cum dicta sunt, nihil secum de posterioribus trahunt, ut in eodem quoque homine. Nam si hominem dixeris, simul quoque animal nominabis. Idem est enim homo quod animal. Si animal dixeris, non speciem simul hominis intulisti. Non est enim idem animal quod homo. Hoc idem in geometrica vel in arithmetica videtur incurrere. Si enim numeros tollas, unde triangulum vel quadratum, vel quidquid in geometria versatur? quae omnia numerorum denominativa sunt. At vero, si quadratum triangulumque [1082C] sustuleris, omnisque geometrica consumpta sit, tres et quatuor, aliorumque numerorum non peribunt vocabula. Rursus cum aliquam geometricam formam dixeris, est illi simul numerorum nomen implicitum. Cum numeros dixeris, nondum ullam formam geometricam nominavi. Musica vero quam prior sit numerorum vis, hinc maxime probari potest, quod non modo illa natura priora sunt, quae per se constant, quam illa quae ad aliquid referuntur, sed etiam et ipsa musica modulatio numerorum nominibus adnotatur. Et idem in hac evenire potest quod in geometrica praedictum est. Diatessaron enim et diapente et diapason ab antecedentis numeri nominibus nuncupantur. Ipsorum quoque sonorum adversus se proportio, solis neque aliis numeris invenitur. Qui enim [1082D] sonus in diapason symphonia est, idem duplicis numeri proportionem colligitur. Quae diatessaron est modulatio, epitrita collatione componitur. Quam diapente symphoniam vocant, hemiolia medietate jungitur. Qui in numeris epogdous est, idem tonus in musica. Et ne singula persequi laborem, hujus operis sequentia, quanto prior sit arithmetica, sine ulla dubitatione monstrabunt. Sphaericam vero atque astronomicam tanto praecedunt, quanto duae reliquae disciplinae hanc tertiam natura praecedunt. In astronomica enim, circuli, sphaera, centrum, parallelique circuli, mediusque axis est, quae omnia geometricae disciplinae curae sunt. Quare est etiam ex hoc ostendere senioremem geometricae vim, quod omnis motus est post quietem, [1083A] et natura semper statio prior est. Mobilium vero astronomica, immobilium geometrica doctrina est, vel quod harmonicis modulationibus motus ipse celebratur astrorum. Quare constat quoque musicae vim, astrorum cursus antiquitate praecedere, quam superare natura arithmetica dubium non est, cum prioribus, quam illa est, antiquior videatur. Proprie tamen ipsa numerorum natura, omnis astrorum

cursus, omnisque astronomica ratio constituta est. Sic enim ortus occasusque colligimus, sic tarditates velocitatesque errantium siderum custodimus, sic defectus et multiplices lunae variationes agnoscimus. Quare quoniam prior, ut claruit, arithmeticae vis est, hinc disputationis sumamus exordium.

## **CAPUT II.** *De substantia numeri.* [1083B]

Omnia quaecunque a primaeva rerum natura constructa sunt, numerorum videntur ratione formata. Hoc enim fuit principale in animo conditoris exemplar. Hinc enim quatuor elementorum multitudo mutuata est, hinc temporum vices, hinc motus astrorum, coelique conversio. Quae cum ita sint, cumque omnium status numerorum colligatione fungatur, eum quoque numerum necesse est, in propria semper sese habentem aequaliter substantia, permanere, eumque compositum non ex diversis. Quid enim numeri substantiam conjungeret, cum ipsius exemplum cuncta junxisset? sed ex seipso videtur esse compositus. Porro autem nihil ex similibus componi videtur, nec ex his quae nulla rationis proportionem junguntur, [1083C] et a se omni substantia naturaque discreta sunt. Constat ergo quoniam conjunctus est numerus, neque ex similibus esse conjunctum, neque ex his quae ad se invicem nulla ratione proportionis haerent. Erunt ergo, numeros, prima quae jungant, ad substantiam quidem quae constant, semperque permaneant. Neque enim ex non existentibus effici quidquam potest, et sunt ipsa dissimilia et potentia componendi. Haec autem sunt quibus numerus constat, par atque impar. Quae divina quadam potentia cum disparia sint contrariaque, tamen ex una genitura profluunt, et in unam compositionem modulationemque junguntur.

## **CAPUT III.** *De diffinitione et divisione numeri, et diffinitione paris et imparis.* [1083D]

Et primum quid sit numerus diffiniendum est. Numerus est unitatum collectio, vel quantitatis acervus ex unitatibus profusus. Hujus igitur prima divisio est in imparem atque parem. Et par quidem est, qui potest in aequalia duo dividi, uno medio non intercedente. Impar vero quem nullus in aequalia dividit, quin in medio praedictus unus intercidat. Et haec quidem hujusmodi diffinitio vulgaris est et nota.

## **CAPUT IV.** *Diffinitio numeri paris et imparis secundum Pythagoram.*

Illa autem secundum Pythagoricam disciplinam alia est. Par numerus est, qui sub eadem divisione [1084A] potest in maxima parvissimaque dividi. Maxima spatio, parvissima quantitate, secundum duorum istorum generum contrarias passiones. Impar vero numerus est, cui hoc quidem accidere non potest, sed cujus in duas inaequales summas naturalis est sectio. Hoc est autem exemplar. Ut si quilibet fatus par numerus dividatur, major quidem (quantum ad divisionis spatia pertinet) non invenietur quam discreta medietas; quantitate vero nulla minor sit, quam in gemina facta partitio, ut si par numerus qui est 8, dividatur in 4 atque alios 4, nulla erit alia divisio, quae majores partes efficiat. Porro autem nulla erit alia divisio quae totum numerum minore dividat quantitate. In duas enim partes divisione, nihil minus est. Cum enim totum quis fuerit trina divisione partitus, spatii [1084B] quidem summa minuitur, sed numerus divisionis augetur. Quod autem dictum est, secundum duorum generum contrarias passiones, hujusmodi est. Praedocuumus enim quantitatem in infinitas pluralitates accrescere, spatia vero, id est magnitudines, in infinitissimas minui parvitates, atque ideo hic contra evenit; haec namque paris divisio, spatio est maxima, parvissima quantitate.

## **CAPUT V.** *Alia secundum antiquiorem modum diffinitio paris et imparis.*

Secundum antiquiorem vero modum, alia est paris numeri definitio. Par numerus est qui in duo aequalia, et in duo inaequalia partitionem recipit, sed [1084C] ut in neutra divisione, vel imparitati paritas, vel paritati imparitas misceatur, praeter solum paritatis principem binarium numerum, qui inaequalem non recipit sectionem, propterea quod ex duabus unitatibus constat, et ex prima duorum quodammodo paritate. Quod autem dico, tale est: si enim ponatur par numerus, potest in duo aequalia dividi, ut denarius dividitur in quinos. Porro autem et per inaequalia, ut idem denarius in 3 et in 7. Sed hoc modo, ut cum una pars fuerit divisionis par, alia quoque par inveniat, et si una impar, reliqua ab ejus imparitate non discrepet, ut in eodem numero qui est denarius. Cum enim divisus est in quinos, vel cum in 3 et in 7 utraque in utraque portione partes, impares exstiterunt. Si autem ipse vel alius numerus par dividatur in [1084D] aequales, ut octonarius in 4 et in 4, et item per inaequales, ut idem octonarius in 5 et in 3, in illa quidem divisione utraque partes pares factae sunt, et in hac utraque impares exstiterunt. Neque unquam fieri potest, ut cum una pars divisionis par fuerit, alia impar inveniri queat, aut cum una impar sit, alia par possit intelligi. Impar vero numerus est qui ad quamlibet illam divisionem, per inaequalia semper dividitur, ut utrasque species numeri semper ostendat, nec unquam altera sine altera sit, sed una pars paritati, imparitati alia deputatur, ut 7 si dividat in 3 et in 4, altera portio par, altera impar est. Et hoc idem in cunctis imparibus numeris invenitur. Neque unquam in imparis divisione, praeter se esse possunt [1085A] hae geminae species, quae naturaliter vim numeri substantiamque componunt.

**CAPUT VI.** *Diffinitio paris et imparis per alterutrum.*

Quod si haec etiam per alterutras species diffinienda sunt, dicetur imparem numerum esse, qui unitate differt a pari, vel incremento, vel diminutione. Item par numerus est, qui unitate differt ab impari, vel incremento, vel diminutione. Si enim pari unum dempseris vel unum adjeceris, et impar efficitur, vel si impari idem feceris, par continuo procreatur.

**CAPUT VII.** *De principalitate unitatis.*

Omnis quoque numerus circum se positorum et naturali sibimet dispositione junctorum medietas [1085B] est. Et qui super duos illos sunt, qui medio junguntur, si componantur, etiam ipsorum supradictus numerus media portio est, et rursus illorum qui sunt super secundo loco junctos, cum ipsi quoque sint compositi, prior his numerus medietatis loco est, et hoc erit usque dum occurrens unitas terminum fecerit. Ut si ponat quis quinarium numerum, altrinsecus circa ipsum sunt, supra 4, inferius 6. Hi ergo si juncti sunt, faciunt 10, quorum 5 numerus medietas est. Qui autem circa ipsos, id est circa 6 et 4 sunt, 3 scilicet et 7; idem si juncti sunt, eorum quinarium numerus medietas est. Rursus istorum, qui altrinsecus positi sunt, si jungantur, etiam hi quinarium numeri dupli sunt. Nam super 3 sunt 2, super 7 sunt 8. Hi ergo si juncti sunt faciunt 10, quorum quinarium rursus [1085C] medietas est. Hoc idem in omnibus numeris evenit, usque dum ad unitatis terminum perveniri queat. Sola enim unitas circum se duos terminos non habet, atque ideo ejus, qui est prope se, solius est medietas. Nam juxta unum solus est binarius naturaliter constitutus, cujus unitas media pars est. Quare constat primam esse unitatem, cunctorum qui sunt in naturali dispositione numerorum, et etiam rite totius quamvis prolixae, genitricem pluralitatis agnoscere.

**CAPUT VIII.** *Divisio paris numeri*

Paris autem numeri species sunt 3. Est enim una quae dicitur pariter par, alia vero pariter impar, tertia impariter par. Et contraria quidem, locaque obtinentia summitatum, videntur esse pariter par, et pariter [1085D] impar. Medietas autem quaedam quae utrorumque participat, est numerus qui vocatur impariter par.

**CAPUT IX.** *De numero pariter pari ejusque proprietatibus .*

Pariter par numerus est qui potest in duo paria dividi, ejusque pars in alia duo paria, partisque pars in alia duo paria, ut hoc totiens fiat, usque dum divisio partium ad indivisibilem naturaliter perveniat unitatem. Ut 64 numerus habet medietatem 32, hic autem medietatem 16, hic vero 8, hunc quoque quaternarius in aequa partitur, qui binarii duplus est, sed binarius unitatis medietate dividitur, quae unitas naturaliter singularis, non recipit sectionem. Huic numero videtur accidere, ut quaecunque ejus fuerit pars, [1086A] cum nomine ipso vocabuloque pariter par inveniat, tum etiam quantitate. Sed ideo mihi videtur hic numerus pariter par vocatus, quod ejus omnes partes et nomine et quantitate pares pariter inveniantur. Quomodo autem et nomine et quantitate pares habeat partes hic numerus, post dicemus. Horum autem generatio talis est. Ab uno enim quoscunque in duplici proportionem notaveris, semper pares pariter procreantur. Praeter hanc autem generationem ut nascantur aliter, impossibile est. Hujus autem rei tale videtur per ordinem descriptionis exemplum. Sint itaque cuncti duplices ab uno 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, atque hinc si fiat infinita progressio, tales cunctos invenies. Factique sunt ab uno in duplici proportionem, et omnes sunt pariter pares. Illud autem [1086B] non minima consideratione dignum est, quod ejus omnis pars, ab una parte quacunque quae intra ipsum numerum est denominatur, tantamque summam quantitatis includit, quota pars est alter numerus pariter paris, illius qui eum continet quantitatis. Itaque fit ut sibi partes ipsae respondeant, ut quota pars una est, tantam habeat altera quantitatem, et quota pars ista est, tantam in priore summam necesse sit multitudinis inveniri. Et primum fit, si pares fuerint dispositiones, ut duae mediae partes sibi respondeant, post vero quae super ipsas sunt sibi invicem convertantur, atque hoc idem fiat donec uterque terminus extremitates incurrat. Ponatur enim pariter paris ordo, ab uno usque 128, hoc modo 1, 2, 4, 8, 16, 32, 64, 128, et ea sit summa maxima. In hoc igitur [1086C] quoniam pares dispositiones sunt, una medietas non potest inveniri. Sunt igitur duae, id est 8 et 16, quae considerandae sunt, quemadmodum ipsae sibi respondeant. Totius enim summae, id est 128, octava pars est 16, sexta decima 8. Rursus super has partes quae sunt, ipsae sibi invicem respondebunt, id est 32 et 4. Nam 32 quarta pars est totius summae, 4 vero trigesima secunda. Rursus super has partes 64, secunda pars est, 2 vero sexagesima quarta. Donec extremitates limitem faciant, quas dubium non est eadem responsione gaudere. Est enim omnis summa, semel 128, unus vero, centesimus vigesimus octavus. Si autem impares terminos ponamus, id est summas (idem enim terminos, quod summas, nomino), secundum imparis naturam, potest una medietas inveniri, [1086D] atque una sibi ipsa est responsura. Si enim ponatur hic ordo 1, 2, 4, 8, 16, 32, 64, una erit sola medietas, id est 8. Qui 8 summae totius pars est octava, et sibi ipsi ad denominationem quantitatemque convertitur. Eodemque modo, sicut superius, circa ipsum qui sunt termini, donant sibi mutua nomina, secundum proprias quantitates,

vocabulumque permutant. Nam 4 sexta decima pars est totius summae, 16 vero quarta. Et rursus super hos terminos, 32 secunda pars est totius summae, 2 vero trigesima secunda, et semel tota summa 64 sunt, sexagesima quarta vero unitas invenitur. Hoc igitur est quod dictum est, omnes ejus partes et nomine et quantitate pariter pares inveniri. Hoc quoque multa consideratione, [1087A] multaque constantia divinitatis perfectum est, ut ordinatim dispositae minores summae in hoc numero et super seipsas coacervatae sequenti minus uno semper aequantur. Si enim unum jungas his qui sequuntur duobus, fiunt 3, id est, qui uno minus quaternario cadunt. Et si superioribus addas 4, sunt 7, qui ab octonario sequente sola unitate vincuntur. Sed si eosdem 8 supradictis adjunxeris, 15 fiunt, qui par 16 numeri existeret quantitati, nisi minor unitas impediret. Hoc autem prima etiam numeri progenies servat atque custodit. Namque unitas quae prima est, duobus subsequentibus sola est unitate contractior. Unde nihil mirum est, totum summae crementum proprio consentire principio. Haec autem nobis consideratio maxime proderit, in his numeris cognoscendis [1087B] quos superfluos vel imminutos imperfectosque monstrabimus. Illic enim coacervata quantitas partium numeri totius termino comparatur. Illud quoque nulla possumus oblivione transmittere, quod in hoc numero respondentibus sibi invicem partibus multiplicatis, major extremitas ejusdem numeri summaque conficitur. Et primum si pares fuerint dispositiones, medii multiplicantur, atque inde qui super ipsos sunt, usque ad supradictos extremitates. Si enim fuerint pares dispositiones, secundum naturam paris duos in medio terminos continebunt, ut in ea dispositione numerorum in qua extremus terminus 128 finitur. In hoc enim numero medietates sunt 8, scilicet, et 16 quae in se multiplicatae majoris summam crescente pluralitate conficient. Octies enim 16, vel sedecies 8 [1087C] si multiplices, 128 summa concrevit. Atque hi numeri qui super eosdem sunt, si multiplicentur idem faciunt. Nam 4 et 32 in se si multiplices, supradictam facient extremitatem, 4 enim trigies et bis, vel quater 32 ducti, 128 immutabili necessitate complebunt. Atque hoc usque ad extremos terminos cadit, id est 1 et 128. Semel enim extremus terminus 128 est. Centies vigies atque octies unitate multiplicata, nihil de priore quantitate mutabitur. Si autem impares fuerint dispositiones, unus medius terminus invenitur, atque ipse sibi propria multiplicatione respondet. In eo namque ordine numerorum, ubi extremus terminus 64 pluralitate concluditur, sola invenitur una medietas, id est 8. Quam si octies, id est in semetipsam multiplices 64 explicabit. Atque idem reddunt [1087D] illi qui super hanc medietatem sunt, ut dudum hi qui super duas positi faciebant. Nam quater 16, 64 sunt, et sedecies 4 idem complent. Rursus bis 32, facti a 64 non discedunt, et trigies bis duo, eosdem cumulant, et semel 64, vel unitas sexagesies quater multiplicata, eundem numerum sine ulla varietate restituent.

#### **CAPUT X.** *De numero pariter impari ejusque proprietatibus.*

Pariter autem impar numerus est qui et ipse quidem paritatis naturam substantiamque sortitus est, sed in contraria divisione, naturae numeri pariter paris opponitur. Docebitur namque quam longe hic dissimili ratione dividatur. Nam quoniam par est, in [1088A] partes aequales recipit sectionem, partes vero ejus mox indivisibiles atque insecabiles permanebunt, ut sunt 6, 10, 14, 18, 22, et his similes. Mox enim hos numeros si in gemina fueris divisione partitus, incurris in imparem, quem secare non possis. Accidit autem his quod omnes partes contrarie denominatas habent, quam sunt quantitates ipsarum partium quae denominantur. Neque unquam fieri potest ut quaelibet pars hujus numeri ejusdem generis denominationem quantitatemque suscipiat. Semper enim si denominatio fuerit par, quantitas partis erit impar, et si fuerit denominatio impar, quantitas erit par, ut in 18. Secunda ejus pars est, id est media, quod paritatis nomen est 9, quae impar est quantitas. Tertia vero quae impar est denominatio sex, cui par pluralitas [1088B] est. Rursus si convertas, sexta pars quae par est denominatio, tres sunt, sed ternarius impar est. Et nona pars, quod impar est vocabulum, 2 qui par numerus est. Atque idem in aliis cunctis qui sunt pariter impares invenitur. Neque unquam fieri potest, ut cujuslibet partis, sit ejusdem generis nomen et numerus. Fit autem horum procreatio numerorum, si ab uno disponantur, quicumque duobus differunt, id est omnibus imparibus naturali sequentia atque ordine constitutis. Namque hi si per binarium numerum multiplicentur, omnes pariter impares, rite pluralitas dimensa efficiet. Ponatur enim prima unitas, id est 1, et post hanc qui ab hac duobus differt, id est 3, et post hunc qui rursus a superiore duobus, id est 5, et hoc in infinitum. Et sit hujusmodi dispositio [1088C] 1, 3, 5, 7, 9, 11, 13, 15, 17, 19. Hi ergo naturaliter sequentes impares sunt, quos nullus in medio par numerus distinguit: hos si per binarium numerum multiplices, efficies hoc modo, bis unum, id est qui dividitur quidem, sed ejus partes indivisibiles reperiuntur propter insecabilis unitatis naturam. Bis 3, bis 5, bis 7, bis 9, bis 11, et deinceps, ex quibus nascuntur hi, 2, 6, 10, 14, 18, 22. Quos si divides, unam recipiunt sectionem, caeteram repudiantes, quod secunda divisio ab imparis medietate partis excluditur. His autem numeris ad se invicem quaternarii sola distantia est. Namque inter 2 et 6 numeros, 4 sunt. Rursus inter 6 et 10, et inter 10 et 14, et inter 14 et 18, idem quaternarius differentiam facit. Hi namque omnes quaternaria sese numerositate [1088D] transcendunt. Quod idcirco contingit, quoniam primi qui positi sunt, hoc est eorum fundamenta, binario se numero praecedebant, quos quoniam per binarium multiplicavimus, in quaternarium numerum crevit illa progressio. Duo enim per bis multiplicati quaternarii faciunt summam. Igitur in naturalis numeri dispositione, pariter impares numeri quinto loco a se distant, solis 4 se praecedunt, 3 in medio transeunt, per binarium numerum multiplicatis imparibus, procreati. Contrariae vero esse dicuntur hae species numerorum, id est pariter par, et pariter impar, quod in numero pariter impari sola divisionem recipit major extremitas, in illo vero solus minor terminus sectione solutus est, et quod in forma pariter paris numeri [1089A]

ab extremitatibus incipienti, et usque ad media progredienti, quod continetur sub extremis terminis, idem est illi quod continetur sub intra se positis summulis. Atque hoc idem usque dum ad duas medietates fuerit ventum, in dispositionibus scilicet paribus. Si autem fuerint impares dispositiones, quod ab una medietate conficitur, hoc idem sub altrinsecus positibus partibus procreatur. Atque hoc usquedum ad extremitates processio fiat. In ea enim dispositione quae est 2, 4, 8, 16, idem reddunt 2 per 16 multiplicati, quod 4 per octonarium numerum ducti. Utroque enim modo 32 fient. Quod si impar sit ordo, ut est 2, 4, 8, idem facient extremi quod medietas. Bis enim 8 sunt 16, quatuor quater sunt 16, qui numerus a quaternario in se ducto perficitur. In numero vero pariter [1089B] impari, si fuerit unus in medio terminus, circum se positorum terminorum si in unum redigantur medietas est. Et idem eorum quoque qui super hos sunt terminos medietas est. Atque hoc usque ad extremos omnium terminorum, ut in eo ordine qui est pariter imparium numerorum 2, 6, 10, junctus binarius cum denario 12 explet, cujus senarius medietas invenitur. Si vero fuerint duae medietates junctae, ipsae utraeque aequales erunt super se terminis constitutis. Ut est in hoc ordine, 2, 6, 10, 14. Juncti enim 2 et 14, in 16 crescunt, quos senarius cum denario copulatus efficiet. Atque hoc in numerosioribus terminis initio sumpto a mediis evenit, usque dum ad extrema veniatur.

**CAPUT XI.** *De numero impariter pari ejusque proprietatibus, et descriptionis ad impariter paris, in latitudine, in longitudine, ad pariter paris naturam pertinentis, expositio.* [1089C]

Impariter par numerus est ex utrisque confectus, et medietatis loco gemina extremitate concluditur, ut qua ab utroque discrepet, eadem ad alterutrum cognatione jungatur. Hic autem talis est qui dividitur in aequas partes, cujusque pars in alias aequas dividi potest, et etiam aliquando partes partium dividuntur, sed non ut usque ad unitatem progrediatur aequabilis illa distinctio, ut sunt 24 et 28. Hi enim possunt in medietates dividi, et eorum rursus partes in [1089D] alias medietates, sine aliqua dubitatione solvuntur. Sunt etiam quidam alii numeri, quorum partes alias recipiunt divisiones, sed ipsa divisio ad unitatem usque non pervenit. Igitur in eo quod plus quam unam suscipit sectionem, habet similitudinem pariter paris, sed a pariter impari segregatur. In eo vero quod usque ad unum sectio illa non ducitur, pariter imparem non refutat, sed a pariter pari disjungitur. Contingit autem huic numero et utraque habere quae superiores non habent, et utraque quae illi recipiunt obtinere. Et habet quidem quod utrique non habent, quod cum in uno solus major terminus divideretur, in alio vero solus minor terminus non divideretur, in hoc neque solus major terminus divisionem recipit, neque minor solus terminus a divisione sejungitur. Nam et partes solvuntur, et usque ad unitatem [1090A] sectio illa non pervenit, sed ante unitatem invenitur terminus, quem secare non possis. Obtinet autem quae illi quoque recipiunt, quod quaedam partes ejus respondent, denominanturque secundum genus suum ad propriam quantitatem, ad similitudinem, scilicet pariter paris numeri. Aliae vero partes contrariam denominationem sumunt propriae quantitatis, ad pariter imparis scilicet formam. In 24 enim numero, par est quantitas partis a pari numero denominata. Nam quarta 6, secunda vero 12, sexta vero 4, duodecima 2, quae vocabulo partium a quantitatis paritate non discrepant. Contrariae vero denominantur, cum tertia pars octo, octava vero 3, vigesima autem quarta 1, quae denominationes cum pares sint inveniuntur [1090B] impares quantitates, et cum sint pares summae, sunt impares denominationes. Nascuntur autem tales numeri ita, ut substantiam naturamque suam in ipsa etiam propria generatione designent, ex pariter paribus et pariter imparibus procreati. Pariter enim impares, cunctis dudum ordinatim positibus imparibus, nascebantur, pariter vero pares ex duplici progressionem. Disponantur igitur omnes in ordinem naturaliter impares, et sub his a quatuor inchoantes omnes duplices, et sint hoc modo: His igitur ita positibus, si primus primi multiplicatione concreseat, id est si quaternarii ternarius, vel si idem primus secundi, id est octonarii ternarius, vel si [1090C] idem primus tertii, id est 16 ternarius, et idem usque ad ultimum, vel si secundus primi et secundi, vel si secundus tertii, et eadem usque ad extremum multiplicatio proferatur, vel si tertius a primo inchoans usque in extremum transeat. Atque ita quartus et omnes in ordinem superiores multiplicent eos qui sub ipsis in dispositione sunt, omnes impariter pares procreabunt. Hujus autem rei tale sumamus exemplum, si tres quater multiplices, 12 fient; vel si 5 quatuor multiplicant, 20 numerus excrescet; vel si item 7 multiplicant 4, 28 succrescet, atque hoc usque in finem. Rursus si 8 multiplicant 3, nascentur 24. Si 8 in 5, fiunt 40; si 8 in 7, colligentur 56. Atque ad hunc modum si omnes inferiores duplices, in superioribus [1090D] multiplicantur, vel si superiores eosdem inferiores multiplicant, cunctos qui nati fuerint impariter pares invenies. Atque haec est admirabilis hujus numeri forma, quod cum fuerit ipsa dispositio descriptioque perspecta numerorum, ad latitudinem pariter imparium, ad longitudinem pariter parium numerorum proprietas invenitur. Sunt enim in latitudinem duabus medietatibus aequales duae extremitates, vel una medietate duae duplices extremitates. In longitudinem vero, pariter paris numeri rem proprietatemque designat. Quod enim sub duabus medietatibus continetur, aequale est ei quod sub extremis conficitur, vel quod ab una medietate nascitur, aequale est illi quod sub utrisque extremitatibus continetur. Descriptio autem quae supposita est, hoc modo facta est. Quantoscunque in ordine pariter parium numerorum [1091A] ternarius multiplicavit, quicumque ex eo procreati sunt, primo sunt versu dispositi. Rursus qui eosdem multiplicante quinario nati sunt, secundo loco constituti sunt. Post vero quos septenarius caeteros multiplicando procreavit, eosdem tertio conscripsimus loco, atque idem reliqua descriptionis parte perfecimus.

In hac formula sequenti, similitudo pariter paris et pariter imparis, ad impariter parem, ostenditur. [1091B]

**CAPUT XII.** *Descriptionis ad impariter paris, in latitudine, in longitudine, ad pariter paris naturam pertinentis expositio.* [1091C]

Superius igitur digestae descriptionis haec ratio est. Si ad latitudinem respicias, ubi est duorum terminorum una medietas, ipsosque terminos jungas, duplos eos medietate propria reperies, ut 36 et 20 faciunt 56, quorum medietas est 28, qui medius est inter eos terminus constitutus. Et rursus 28 et 12, si jungas, faciunt 40, quorum 20 medietas, medius eorum terminus invenitur. At vero ubi duas medietates habent, [1091D] utraeque extremitates junctae, utrisque medietatibus aequales fiunt, ut 12 et 36 cum junxeris fiunt 48, horum si medietates sibimet applicaveris, id est 20 et 28, idem erit, atque in alia parte latitudinis, eodem ordine qui fiant numeri, notati sunt. Neque ulla in re ratio utrisque latitudinis discrepabit, idemque in eodem ordine in caeteris numeris pernotabis, et hoc secundum formam pariter imparis numeri fit, in quo hanc proprietatem esse supra jam scriptum est. Rursus si ad longitudinem respicias, ubi duo termini unam medietatem habent, quod fit ex multiplicatis extremitatibus, hoc fit si medius terminus suae capiat pluralitatis augmenta. Nam duodecies 48 faciunt 576. Medius vero eorum terminus, id est 24, si multiplicetur, eosdem rursus 576 procreabit. Et rursus si 24 in 96 multiplicentur, faciunt 2304. Quorum medius [1092A] terminus, id est 48, si in semetipsum ducatur, idem 2304 procreatur. Ubi autem termini duo duas medietates includunt, quod fit multiplicatis extremitatibus, hoc idem redditur in alterutram summam medietatibus ductis. Duodecies enim 96 multiplicatis 1152 procreantur, duae vero eorum medietates, id est 24 et 48, si in semetipsas multiplicentur, eosdem 1152 restituent. Atque hoc est, ad imitationem cognationemque numeri pariter paris, a quo participatione tracta, haec ei recognoscitur ingenerata proprietas. Et in alio vero latere longitudinis, eadem ratio descriptioque notata est. Quare manifestum est hunc numerum ex prioribus duobus esse procreatum, quoniam eorum retinet proprietates.

**CAPUT XIII.** *De numero impari ejusque divisione.* [1092B]

Impar quoque numerus est, qui a paris numeri natura substantiaque disjunctus est. Siquidem ille in gemina membra aequa dividi potest, hic ne secari queat, unitatis impedit interventus. Tres habet similiter subdivisiones, quarum una ejus pars est is numerus qui vocatur primus et incompositus. Secunda vero, qui est secundus et compositus. Et tertia is qui quadam horum medietate conjunctus est, et ab utriusque cognatione aliquid naturaliter trahit, qui est per se quidem secundus et compositus, sed ad alios comparatus, primus et incompositus invenitur.

**CAPUT XIV.** *De primo et incomposito.* [1092C]

Et primus quidem et incompositus est, qui nullam aliam partem habet, nisi eam quae a tota numeri quantitate denominata sit, ut ipsa pars non sit nisi unitas, ut sunt 3, 5, 7, 11, 13, 17, 19, 23, 29, 31. In his ergo singulis nulla unquam alia pars invenietur, nisi quae ab ipsis denominata est, et ipsa tantum unitas, ut supra jam dictum est. In tribus enim una pars sola est, id est tertia, quae a tribus scilicet denominata est, et ipsa tertia pars unitas. Eodemque modo quinarium sola quinta pars est, et haec unitas, atque idem in singulis consequens reperietur. Dicitur autem primus et incompositus, quod nullus eum alter numerus [1092D] metiatur, praeter solam, quae cunctis mater est, unitatem. Namque ternarium 2 non numerant, idcirco quoniam si solos duos contra tres compares, pauciores sunt. Sin vero binarium bis facias, amplioerem tribus concrescit in 4. Metitur autem numerus numerorum, quoties vel semel, vel bis, vel tertio, vel quotieslibet numerus ad numerum comparatus, neque diminuta summa, neque aucta, ad comparati numeri terminum usque pervenit, ut duo si ad 6 compares, binarius numerus senarium tertio metietur. Primos ergo et incompositos nullus numerus metietur, praeter unitatem solam, quoniam ex nullis aliis numeris compositi sunt, sed tantum ex unitatibus in semetipsis auctis multiplicatisque procreantur. Ter enim unus 3, et quinquies unus 5, et septies unus 7 fecerunt. Et alii quidem, quos supra descripsimus, eodem modo [1093A] nascuntur. Hi autem in semetipsos multiplicati faciunt alios numeros velut primi, eosque primam rerum substantiam vimque sortitos, cunctorum a se procreatorum velut quaedam elementa reperies, quia scilicet, et incompositi sunt, et simplici generatione formati, atque in eos omnes quicumque ex his prolati sunt numeri resolvuntur, ipsi vero neque ex aliis producuntur, neque in alia reducuntur.

**CAPUT XV.** *De secundo et composito.*

Secundus vero et compositus, et ipse quidem impar est, propterea quod eadem imparis proprietate formatus est, sed nullam in se retinet substantiam principalem, compositusque est ex aliis numeris, habetque partes, et a seipso et ab alieno vocabulo denominatas, [1093B] sed a se ipso denominatam partem, solam semper in his invenies unitatem, ab alieno vero vocabulo, vel unam, vel quodlibet alias, quanti fuerint scilicet numeri quibus ille compositus procreatur, ut sunt hi, 9, 15, 21, 25, 27, 33, 39. Horum ergo singuli habent quidem a se denominatas

partes, proprias scilicet unitates, ut 9, nonam, id est 1; 15, quintam decimam, eandem rursus unitatem, et in caeteris quos supra descripsimus idem convenit. Habent etiam ab alieno vocabulo partem, ut 9, tertiam, id est ternarium, et 15, tertiam, id est 5, et quintam, id est, 3; 21 vero tertiam, id est 7, septimam, 3, et in omnibus aliis eadem consequentia est. Secundus autem vocatur hic numerus, quoniam non sola unitate metitur, sed etiam alio numero a quo scilicet conjunctus est. **[1093C]** Neque habet in se quidquam principalis intelligentiae. Nam ex aliis numeris procreatur, 9 quidem ex 3, 15 vero ex 3 et 5, et 21 ex 3 et 7, et caeteri eodem modo. Compositus autem dicitur, eo quod resolvi potest in eosdem ipsos a quibus dicitur esse compositus, in eos scilicet qui compositum numerum metiuntur. Nihil autem quod dissolvi potest incompositum est, sed omni rerum necessitate compositum.

**CAPUT XVI.** *De eo qui per se secundus et compositus, ad alium primus et incompositus est.*

His vero contra se positus, id est primo et incomposito, et secundo et composito, et naturali diversitate disjunctis, alius in medio consideratur, qui ipse **[1093D]** quidem compositus sit, et secundus, et alterius recipiens mentionem, atque ideo, et partis alieni vocabuli capax, sed cum fuerit ad alium ejusdem generis numerum comparatus, nulla cum eo communi mensura conjungitur, nec habebunt partes aequivocas, ut sunt 9 ad 25, nulla hos communis numerorum mensura metitur, nisi forte unitas quae omnium numerorum mensura communis est. Et hi quidem non habent aequivocas partes. Nam quae in 9 tertia est, in 25 non est, et quae in 25 quinta est, in novenario non est. Ergo hi per naturam utriusque secundi et compositi sunt, comparati vero ad se invicem primi incompositique redduntur, quod utrosque nulla alia mensura metitur, nisi unitas quae ab utrisque denominata **[1094A]** est. Nam in novenario nona est, in 25 vigesima quinta.

**CAPUT XVII.** *De primi et incompositi, secundi et compositi, et ad se quidem secundi et compositi, ad alterutrum vero primi et incompositi procreatione.*

Generatio autem ipsorum atque ortus hujusmodi investigatione colligitur, quam scilicet Eratosthenes cribrum nominabat, quod cunctis imparibus in medio collocatis, per eam quam tradituri sumus artem, qui primi, quive secundi, quique tertii generis videantur esse, distinguitur. Disponantur enim a ternario numero cuncti in ordinem impares, in quamlibet longissimam porrectionem, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, **[1094B]** 43, 45, 47, 49. His igitur ita dispositis considerandum primus numerus quem eorum qui sunt in ordine positi primum metiri possit, sed duobus praeteritis, illum qui post eos est positus, mox metitur. Et si post eundem ipsum quem mensus est, alii duo transmissi sunt, illum qui post duos est rursus metitur. Et eodem modo si duos quis reliquerit, post eos qui est, a primo numero metiendus est. Eodemque modo relictis semper duobus, a primo in infinitum pergentes metientur. Sed id non vulgo neque confuse. Nam primus numerus illum qui est post duos secundum se locatos per suam quantitatem metitur. Ternarius enim numerus tertio 9 metitur. Si autem post novenarium duos reliquero, qui mihi post illos incurrerit, a primo metiendus est, per secundi imparis **[1094C]** quantitatem, id est per quinarium. Nam si post 9 duos relinquam, id est, 11 et 13, ternarius numerus 15 metietur per secundi numeri quantitatem, id est per quinarium, quoniam ternarius 15 quinquies metitur. Rursus si, a quindenario inchoans, duos intermisero, qui posterior positus est, ejus primus numerus, mensura est per tertii imparis pluralitatem. Nam si post 15 intermisero 17 et 19, incurrit 21, quem ternarius numerus secundum septenarium metitur, 21 enim numeri ternarius septima pars est. Atque hoc in infinitum faciens, reperio primum numerum, si binos intermisero, omnes sequentes post se metiri secundum quantitatem positorum ordine imparium numerorum. Si vero quinarium numerus, qui in secundo loco est constitutus, velit quis cujus prima **[1094D]** ac deinceps sit mensura invenire, transmissis 4 imparibus, quintus ei, quem metiri possit, occurrit. Intermittantur enim 4 impares, id est 7 et 9 et 11 et 13, post hos est quintus decimus, quem quinarium metitur, secundum primi scilicet quantitatem, id est ternarii, quinque enim 15, tertio metiuntur. Ac deinceps si quatuor intermittat, eum qui post illos locatus est, secundus, id est quinarium sui quantitate metitur. Nam post quindecim intermissis 17 et 19 et 21 et 23, post eos 25 reperio, quos quinarium scilicet numerus sua pluralitate metitur. Quinquies enim quinario multiplicato, 25 succrescunt. Si vero post hunc quilibet 4 intermittat, eadem ordinis servata constantia, qui eos sequitur, secundum tertii, id est septenarii **[1095A]** numeri summam, a quinario metietur. Atque haec est infinita processio. Si vero tertius numerus quem metiri possit exquiratur, sex in medio relinquuntur, et quem septimum ordo monstraverit, hic per primi numeri, id est, ternarii quantitatem metiendus est. Et post illum sex aliis interpositis, quem post eos numeri series dabit, per quinarium, id est per secundum, tertii eum mensura percurret. Si vero alios rursus sex in medio quis relinquat, ille qui sequitur, per septenarium numerum ab eodem septenario metiendus est, id est per tertii quantitatem. Atque hic usque in extremum raturus ordo progreditur. Suscipient ergo metiendi vicissitudinem, quemadmodum sunt in ordinem naturaliter impares constituti. Metientur **[1095B]** autem, si per pares numeros a binario inchoantes, positos inter se impares rata intermissione transiliant, ut primus 2, secundus 4, tertius 6, quartus 8, quintus 10. Vel si locos suos conduplicent, et secundum duplicationem terminos intermittant, ut ternarius qui primus est numerus et unus (omnis enim primus, unus est), bis locum suum multiplicet, faciatque bis unum. Qui cum duo sint, primus duos medios transeat. Rursus secundus, id est quinarium, si locum suum duplicet, 4 explicabit: hic quoque 4 intermittat. Item



si septenarius, qui tertius est, locum suum duplicet, sex creabit: bis enim 3 senarium jungunt; hic ergo in ordinem sex relinquat. Quartus quoque si locum suum duplicet, 8 succrescent: [1095C] ille quoque 8 transiliat; atque hoc quidem in caeteris perspiciendum. Modum autem mensionis secundum ordinem collocatorum ipsa series dabit. Nam primus, primum quem numerat, secundum primum numerat, id est secundum se, et secundum primum quem numerat, per secundum numerat, et tertium per tertium, et quartum item per quartum. Cum autem secundus mensionem susceperit, primum, quem numerat, secundum primum metitur, secundum vero quem numerat, per se, id est per secundum, et tertium per tertium, et in caeteris eadem similitudine mensura constabit. Alios ergo si respicias, vel qui alios mensi sunt, vel qui ipsi ab aliis metiuntur, invenies omnium simul communem mensuram esse non posse, neque ut omnes quemquam [1095D] alium simul numerent, quosdam autem ex his ab alio posse metiri, ita ut ab uno tantum numerentur, alios vero ut etiam a pluribus, quosdam autem ut praeter unitatem eorum nulla mensura sit. Qui ergo nullam mensuram praeter unitatem recipiunt, hos primos et inkompositos iudicamus, qui vero aliquam mensuram praeter unitatem, vel alienigenae partis vocabulum sortiuntur, eos pronuntiemus secundos atque kompositos. Tertium vero illud genus per se secundi et kompositi, primi vero et inkompositi ad alterutrum komparati, hac inquisitor ratione reperiet. Si enim quoslibet illos numeros secundum suam in semetipsos multiples quantitatem, qui procreantur ad alterutrum komparati, nulla mensura kommunionem junguntur. Tres enim et 5 si multiples, tres tertio 9 faciunt, et quinquies 5 reddent 25. His igitur nulla [1096A] est cognatio kommunis mensurae. Rursus 5 et 7, quos procreant si komparas, hi quoque inkommensurabiles erunt. Quinquies enim quinque (ut dictum est) 25, septies 7 faciunt 49. Quorum mensura nulla kommunis est, nisi forte omnium horum procreatrix et mater unitas.

**CAPUT XVIII.** *De inventionem eorum numerorum, qui ad se secundi et kompositi sunt, ad alios vero relati, primi et inkompositi .*

Qua vero ratione tales numeros invenire possimus, si quis nobis eosdem proponat, et imperet agnoscere utrum aliqua mensura kommensurabiles sint, an certe sola unitas utrosque metiatur, reperiendi ars [1096B] talis est. Datis enim duobus numeris inaequalibus, auferre de maiore minorem oportebit, et qui relictus fuerit, si maior est, auferre ex eo rursus minorem, si vero minor fuerit, eum ex reliquo maiore detrahare. Atque hoc eo usque faciendum, quoad unitas ultima vicem retractionis impediatur, aut aliquis numerus impar necessario, si utriusque numeri impares proponantur. Sed eum qui relinquitur numerum, sibi ipsi videbis aequalem. Ergo si in unum incurrat vicissim ista subtractio, primi contra se necessario numeri dicentur, et nulla alia mensura nisi sola unitate kompositi. Si vero ad aliquem numerum (ut superius dictum est) finis diminutionis incurrerit, erit ejus numerus qui metiatur utrasque summas, atque eundem [1096C] ipsum qui remanserit dicemus utrorumque kommunem esse mensuram. Age enim duos numeros kompositos habeamus, quos jubeamur agnoscere an eos aliqua mensura kommunis metiatur. Atque hi sint 9 scilicet et 29, hoc igitur faciemus modo reciprocam diminutionem. Auferamus de maiore minorem, hoc est de 29 novenarium, relinquentur 20. Ex his ergo 20 rursus minorem detrahimus, id est 9, et relinquentur 11. Ex his rursus detraho 9, relictus sunt 2. Quos si detraho novenario, et relictus sunt 7. Quod si duo rursus septenario dempserim, supersunt 5, atque ex his alios duos, tres rursus exuberant, quos alio binario diminutos, sola unitas superstes egreditur. Rursus si ex duobus unum auferam, in uno terminus detractionis haerebit, quem duorum illorum [1096D] numerorum, id est 9 et 29, solum neque alium constat esse mensuram. Hos ergo contra se primos vocabimus. Sed sint alii numeri nobis eadem conditione kompositi, id est 21 et 9, ut quales hi sint investigentur cum sibimet fuerint invicem komparati. Rursus aufero de maiore minoris numeri quantitatem, id est 9 de 21, relinquentur 12. Ex his rursus demo 9, supersunt 3. Qui si ex novenario retrahantur, senarius relinquetur. Quibus item si quis ternarium demat, 3 relinquentur, de quibus tres detrahi nequeunt, atque hic est sibi ipsi aequalis. Nam 3 qui detrahebantur, usque ad ternarium numerum pervenerunt, a quo, quoniam aequales sunt, detrahi minuique non poterunt. Hos igitur kommensurabiles pronuntiabimus, et est eorum qui est reliquus ternarius mensura kommunis.

**CAPUT XIX.** *Alia partitio paris secundum perfectos, imperfectos et ultra quam perfectos. [1097A]*

Ac de imparibus numeris, quantum introductionis permittebat brevitatem, expeditum est. Rursus numerorum parium sic fit secunda divisio. Alii enim eorum sunt superflui, alii diminuti, secundum utrasque habitudines inaequalitatis. Omnis quippe inaequalitas, aut in majoribus, aut in minoribus consideratur. Illi enim immoderata quodammodo plenitudine, proprii corporis modum, partium suarum numerositate praecedunt. Illos autem veluti paupertate inopes oppressosque, quadam naturae suae inopia, minor quam ipsi sunt partium summa komponit, atque illi quidem quorum partes ultra quam satis est sese porrexerunt, [1097B] superflui nominantur, ut sunt 12 vel 24. Hi enim suis partibus komparati, maiorem partium summam toto corpore sortiuntur. Est enim duodenarii medietas 6, pars tertia 4, pars quarta 3, pars sexta 2, pars duodecima 1 est. Omnisque hic cumulus redundat in 16, et totius corporis sui multitudinem vincunt. Rursus 24 numeri medietas est 12, tertia 8, quarta 6, sexta 4, octava 3, duodecima 2, vicesima quarta 1, qui omnes triginta et sex rependunt. In qua re manifestum est quod summa partium major est, et supra proprium corpus exundat. Atque hic quidem quoniam kompositae partes totius summam numeri vincunt, superflui appellatur. Diminutus vero ille, cuius eodem modo kompositae partes

totius termini multitudine superantur, ut 8 vel 9: habet [1097C] enim octonarius partem mediam, id est 4; habet et quartam, id est duo; habet et octavam, id est unum, quae cunctae in unum redactae 7 colligunt, minorem scilicet summam toto corpore concludentes. Rursus 14 habent medietatem, id est septenarium; habent septimam, id est 2; habent quartam decimam, id est 1, quae in unum si collectae sint, denarii numeri summa conerescit, toto scilicet termino minor. Atque hi quidem hoc modo sunt, ut prior ille quem suae partes superant talis videatur, tanquam si quis multis super naturam manibus natus, ut centimanus Gigas, vel triplici conjunctus corpore, ut Geryon tergeminus, vel quidquid unquam monstruosum natura in partium multiplicatione surripuit. Ille vero ut si naturaliter quadam necessaria parte detracta, aut [1097D] minus oculo nasceretur, ut Cyclopeae frontis dedecus fuit, vel quo alio curtatus membro, naturale totius suae plenitudinis dispendium sortiretur. Inter hos autem, velut inter aequales intemperantias, medii temperamentum limitis sortitus est ille numerus qui perfectus dicitur, virtutis scilicet aemulator, qui nec supervacua progressionem porrigitur, nec contracta rursus diminutione remittitur, sed medietatis obtinens terminum, suis aequus partibus, nec crassatur abundantia, nec eget inopia, ut sex vel 28. Namque senarius habet partem mediam, id est 3, et tertiam, id est 2, et sextam, id est 1, quae in unam summam si redactae sint, par totum numeri corpus suis partibus invenitur. 28 vero habet medietatem 14, et [1098A] septimam 4, nec caret quarta, id est 7, possidet quartam decimam 2, et reperies in eo vicesimam octavam 1, quae in unum redactae, totum partibus corpus aequabunt, 28 enim junctae partes efficient.

## CAPUT XX. De generatione numeri perfecti.

Est autem in his quoque magna similitudo virtutis et vitii. Perfectos enim numeros raro invenies, eosque facile numerabiles, quippe qui pauci sunt, et nimis constanti ordine procreati; at vero superfluos ac diminutos longe multos infinitosque reperies, nec ullis ordinibus passim inordinateque dispositos, et a nullo certo fine generatos. Sunt autem perfecti numeri, intra denarium numerum 6, intra centenarium 28, intra millenarium numerum 496, intra decem [1098B] millia 8128. Et semper hi numeri duobus paribus terminantur 6 et 8, et semper alternatim in hos numeros, summarum fines perveniunt. Nam et primum sex, deinde 28. Post hos 496, idem senarius qui primus, post quem 8128, idem octonarius qui secundus. Generatio autem procreatioque eorum est fixa firmaque, nec quo alio modo fieri possint, nec ut si hoc modo fiant, aliud quiddam ullo modo valeat procreari. Dispositos enim ab uno omnes pariter pares numeros in ordinem quousque volueris, primo secundum aggregabis, et si primus numerus et incompositus ex illa coacervatione factus sit, totam summam in illum multiplicabis, quem posterius aggregaveras. Si vero coacervatione facta, primus et incompositus non inventus fuerit, sed compositus et secundus, hunc [1098C] transgredere, atque alium qui sequitur aggregabis. Si vero necdum fuerit primus et incompositus, alium rursus adijunge, et vide quid fiat. Quod si primum incompositumque reperies, tunc in ultimae multitudinem summae coacervationem multiplicabis. Disponantur enim omnes pariter pares numeri, hoc modo: 1, 2, 4, 8, 16, 32, 64, 128. Facies ergo ita: pones 1, eique aggregabis 2; tunc respicies ex hac aggregatione qui numerus factus sit: sunt 3, qui scilicet primus et incompositus est, et post unitatem ultimum binarium numerum aggregaveras. Si igitur ternarium, id est qui ex coacervatione collectus est, per binarium multiplices, qui est ultimus aggregatus, perfectus sine ulla dubitatione nascetur. Bis enim 3 faciunt 6, qui habent unam quidem a se denominatam [1098D] partem, id est sextam, tres vero medietatem secundum dualitatem, at vero duo secundum coacervationem, id est secundum ternarium, quoniam coacervati tres, multiplicati sunt. Viginti octo autem eodem modo nascuntur. Si enim super unum et duo, qui sunt tres, addas sequentem pariter parem, id est 4, septenariam summam facies; sed ultimum numerum quaternarium consequenter adjunxeras; per hunc igitur si illam coacervationem multiplicaveris, perfectus numerus procreatur. Septies enim 4, 28 sunt, qui est suis partibus par, habens unum a se denominatum, id est vigesimum octavum; medietatem vero secundum binarium 14, secundum quaternarium 7, septimam vero secundum septenarium 4, secundum [1099A] omnium collectionem, quartum decimum, duo, qui vocabulo medietatis opponitur. Ergo cum hi reperti sint, si alios invenire secteris, eadem oportet ratione ut vestiges. Ponas enim unum licebit, et post hunc 2 et 4, qui in septenarium cumulantur, sed de hoc dudum exstitit 28 perfectus numerus. Huic igitur qui sequitur pariter par, id est 8, continens jungatur accessio, qui prioribus superveniens, 15 restituit. Sed hic primus et incompositus non est. Habet enim generis alterius partem super illam, quae est a semetipsa denominata, quintam decimam, scilicet unitatem. Hunc igitur, quoniam secundus est compositus praeterito, et adijunge superioribus continentem pariter parem numerum, id est 16. Qui cum 15 junctus, unum ac 30 conficiet. Sed hic primus rursus et incompositus est. Hunc igitur cum extremi aggregati summa [1099B] multiplica, ut fiant sedecies 31, qui 496 explicant. Haec autem est intra millenarium numerum perfecta, et suis partibus aequa numerositas. Igitur prima unitas virtute atque potentia, non etiam actu vel re, et ipsa perfecta est. Nam si primam ipsam sumpsero de proposito ordine numerorum, video primam atque incompositam, quam si per seipsam multiplico, eadem mihi unitas procreatur. Semel enim unum solam efficit unitatem, quae partibus suis aequalis est potentia solum, caeteris etiam actu atque opere perfectis. Recte igitur unitas propria virtute perfecta est, quod et prima est et incomposita, et per seipsam multiplicata sese ipsa conservat. Sed quoniam de ea quantitate quae per se sit dictum est, operis sequentiam ad illam quae refertur ad aliquid transferamus.

## CAPUT XXI. De relata ad aliquid quantitate. [1099C]

Ad aliquid vero quantitatis, duplex est prima divisio. Omne enim, aut aequale est, aut inaequale, quidquid alterius comparatione metitur. Et aequale quidem est, quod ad aliquid comparatum, neque minore summa infra est, neque majore transgreditur, ut denarius denario, vel ternarius ternario, vel cubitum cubito, vel pes pedi, et his similia. Haec autem pars relatae ad aliquid quantitatis, id est, aequalitas, naturaliter indivisa est. Nullus enim dicere potest quod aequalitatis hoc quidem tale est, illud vero hujusmodi. Omnis enim aequalitas unam servat in propria moderatione [1099D] mensuram. Illud etiam quod quae ei quantitas comparatur, non alio vocabulo atque ipsa cui comparatur edicitur. Nam quemadmodum amicus amico amicus est, vicinusque vicino, ita dicitur aequalis aequali. Inaequalis vero quantitatis gemina divisio est. Secatur enim quod inaequale est in majus atque minus, quae contraria sibimet denominatione funguntur. Namque majus minore majus est, et minus majore minus est, et utraque non eisdem vocabulis, quemadmodum secundum aequalitatem dictum est, sed diversis distantibusque signata sunt, ad modum discentis scilicet, vel docentis, vel caedentis, vel vapulantis, vel quaecunque ad aliquid relata, aliter denominatis contrariis comparantur.

**CAPUT XXII. De speciebus majoris inaequalitatis et minoris. [1100A]**

Majoris vero inaequalitatis quinque partes sunt. Est enim una quae vocatur multiplex, alia superparticularis, tertia superpartiens, quarta multiplex superparticularis, quinta multiplex superpartiens. His igitur quinque majoris partibus, oppositae sunt aliae quinque partes minoris, quemadmodum ipsum majus minori semper opponitur, quae minoris species, ita singillatim speciebus quinque majoris his quae supradictae sunt opponuntur, ut eisdem nominibus nuncupentur, sola tantum sub praepositione distantes. Dicitur enim submultiplex, subsuperparticularis, subsuperpartiens, multiplex subsuperparticularis, et multiplex subsuperpartiens.

**CAPUT XXIII. De multiplici ejusque speciebus, earumque generationibus. [1100B]**

Rursus multiplex est prima pars majoris inaequalitatis, cunctis aliis antiquior naturaque praestantior, ut paulo post demonstrabimus. Hic autem numerus hujusmodi est, ut comparatus cum altero, illum contra quem comparatus est, habeat plus quam semel. Quod primum in naturalis numeri dispositione conveniet, namque ad unum cuncti qui sequuntur, omnium ordine multiplicium sequentias varietatesque custodiunt. Ad primum enim, id est unitatem, 2 duplus, 3 triplus, 4 quadruplus, atque ita in ordinem progredientes, omnes texuntur multiplices quantitates. Quod autem dictum est, plus quam semel, id a binario [1100C] numero principium capit, et in infinitum per ternarium quaternariumque, et caeterorum ordinem sequentiamque progreditur. Contra hunc vero discriminatus est ille qui vocatur submultiplex, et haec quoque prima minoris quantitatis species est. Hic autem numerus hujusmodi est, qui in alterius comparatione productus, plus quam semel majoris numerat summam, sua scilicet quantitate cum eo aequaliter inchoans, aequaliterque determinans. Idem autem dico numerat quod metitur. Si igitur bis solum majorem numerum minor numerus metiatur, subduplus vocabitur, si vero ter subtriplus, si quater subquadruplus, et fit per haec in infinitum progressio, additaque eos semper sub propositione nominabis, ut unus [1100D] duorum subduplus, trium subtriplus, 4 subquadruplus appelletur, et consequenter. Cum autem naturaliter multiplicitas et submultiplicitas infinita sit, eorum quoque species per proprias generationes in infinita consideratione versantur. Si enim positus in naturali constitutione numeris, singulos per suas consequentias pares eligas, omnium ab uno parium atque imparium sese sequentium duplices erunt, et hujus speculationis terminus non deficit. Ponatur enim naturalis numerus hoc modo, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20. Horum ergo si primum sumas parem, id est 2, primi duplus erit, id est unitatis. Si vero sequentem parem, id est 4, secundi duplus est, id est duorum. Si vero tertium [1101A] parem sumas, id est 6, tertii numeri in naturali constitutione duplus est, id est ternarii. Si vero quartum parem inspicias, id est 8, quarti numeri, id est quaternarii duplus est. Idemque in caeteris in infinitum sumentibus, sine aliquo impedimento procedit. Triplices autem nascuntur, si in eadem dispositione naturali duo semper intermittantur, et qui post duo sunt ad naturalem numerum comparentur, excepto ternario, qui ut unitatis triplus sit, solum binarium praetermittit. Post unum et duo, 3 sunt, qui triplus unius est. Rursus post 4 et 5, sunt 6, qui secundi numeri, id est duorum triplus est. Rursus post 6, sunt 7 et 8, et post hos 9, qui tertii numeri, id est ternarii triplus est. Atque hoc idem in infinitum si quis faciat, sine ulla offensione procedit. Quadruplorum [1101B] vero generatio incipit, si quis tres numeros intermittat. Post unum quippe et 2 et 3, sunt 4, qui primi, id est unius, quadruplus est. Rursus si intermiserit quinarium, senarium, et septenarium, octonarius mihi quartus occurrit, tribus scilicet intermissis, qui binarii, id est secundi numeri, quadruplus est. At vero si post octo tres terminos intermiserit, id est 9 et 10 et 11, duodenarius qui sequitur ternarii numeri quadruplus est. Atque hoc idem in infinitum progressis necesse est evenire, semperque una terminorum intermissione si crescat adjectio, ordinatas te multiplicis numeri vices invenire miraberis. Si enim 4 intermittas, quincuplus invenitur, si quinque sexcuplus, si sex septuplus, semperque ipsius multiplicis nomine uno minus intermissionis vocabulo [1101C] procreantur. Nam duplus unum intermittit, triplus 2, quadruplus 3, quincuplus 4. Et deinceps ad eundem ordinem sequentia est. Et omnes quidem dupli secundum proprias sequentias parium numerorum pares sunt. Tripli vero, unus semper par terminus, impar alius invenitur. Quadrupli vero, rursus semper parem custodiunt quantitatem. Constituunturque a quarto numero, uno ex prioribus per ordinem positus paribus intermisso, primo

pari binario, post hunc 8 intermisso senario, post hunc 12 transmisso denario. Atque hoc idem in caeteris. Quincupli vero propositio, secundum triplicis similitudinem, alternatim paribus atque imparibus positus, ordinatur.

**CAPUT XXIV.** *De superparticulari, ejusque speciebus, earumque generationibus.* [1101D]

Superparticularis vero est numerus ad alterum comparatus, quotiens habet in se totum minorem et partem ejus aliquam. Qui si minoris habeat medietatem, vocatur sesquialter, si vero tertiam partem, vocatur sesquitercius, si vero quartam, vocatur sesquiquartus, et si quintam, vocatur sesquiquintus. Atque his nominibus in infinitum ducis, in infinitum quoque superparticularium forma progreditur. Et majores quidem numeri hoc modo vocantur, minores vero qui habentur toti et eorum aliqua pars, unus subsesquialter, alter subsesquitercius, alius subsesquiquartus, alius vero subsesquiquintus, atque idem secundum majorum normam multitudinemque protenditur. [1102A] Voco autem majores numeros duces, minores comites. Superparticularium quoque infinita est multitudo, ob eam rem quod ejusdem species interminabili progressionem funguntur. Namque sesquialter habebit quidem duces omnes post ternarium numerum naturaliter triplices. Comites vero, omnes post binarium naturaliter pares, hoc modo, ut primus primo, secundus secundo, tertius tertio comparetur, et deinceps. Describantur enim longissimi versus triplicium naturalis numeri atque duplicium, et sit hoc modo: Primus igitur versus continet numerum naturalem, [1102B] secundus ejus triplicem, tertius vero duplicem, atque in eo si ternarius binario, vel si senarius quaternario, vel novenarius senario comparetur, vel omnes triplices superiores si duplicibus numeris consequentibus opponantur, hemiola, id est sesquialtera proportio nascetur, tres enim habent intra se duo, et eorum mediam partem, id est 1, sex quoque continent intra se 4, et eorum medietatem, id est 2, et novem intra se senarium claudunt, et ejus mediam partem, id est 3, eodemque modo in caeteris. Dicendum vero si quis secundam speciem superparticularis numeri considerare desideret, id est sesquiterciam, quali ratione reperiat. Ac definitio quidem hujus comparationis talis est. Sesquitercius est, qui minori comparatus, habet eum semel et ejus tertiam [1102C] partem; sed hi inveniuntur si, omnibus a quaternario numero continuatim quadruplis constitutis, a ternario numero triplices comparentur, eruntque duces quadrupli, comites tripli. Sit enim in ordine hoc modo numerus naturalis, ut sub eo quadrupli, et sub eo tripli sint, supponatur sub primo quadruplo primus triplus, sub secundo secundus, sub tertio tertius, et eodem modo cuncti ejusdem primi versus tripli in ordinem dirigantur. Igitur primum primo si compares, sesquitercia ratio continebitur. Nam si 4 tribus compares, habebunt in se 4, totum ternarium et ejus tertiam partem, id est [1102D] 1, et si secundum secundo, id est octonarium senario compares, idem invenies: habebit enim octonarius senarium totum, et ejus tertiam partem, id est 2, et per eandem sequentiam usque in infinitum progrediendum est. Notandum quoque est quod 3 comites sunt, duces 4. Rursus 6 comites, duces 8, et in eodem ordine caeteri simili modo vocantur duces sesquitercii, comites subsesquitercii, et in cunctis secundum hunc modum posita convenit servare vocabula.

**CAPUT XXV.** *De quodam utili ad cognitionem superparticularibus accidente.*

Hoc autem admirabile profundissimumque in istorum ordinibus invenitur, quod primus dux primusque [1103A] comes ad se invicem nulla numeri intermissione copulantur. Nam primi se nullo in medio posito transeunt, secundi interponunt 1, tertii duos, quarti 3, et deinceps una semper minore quam ipsi sunt intermissione succrescunt. Atque hoc vel in sesquialteris, vel in sesquiterciis, vel in aliis superparticularis partibus necesse est inveniri. Namque ut quaternarius contra ternarium comparetur, nullum intermisimus, post 3 enim mox 4 sunt. At vero 6 contra 8, in secundo scilicet sesquitercio, una facta est intermissio. Inter 6 enim et 8 solus est septenarius qui transmissus est numerus. Rursus ut 9 contra 12 comparemus, qui sunt in dispositione tertii, duorum mediorum est facta transmissio. Inter 9 enim et 12 sunt 10 et 11; secundum hunc modum quarta dispositio 3, quinta 4 intermittit.

**CAPUT XXVI.** *Descriptio per quam docetur caeteris inaequalitatis speciebus antiquiorem esse multiplicem, et digestae formulae ratio et expositio.* [1103B] [1104A]

Quoniam autem naturaliter et secundum propriam ordinis consequentiam, multiplicem inaequalitatis speciem cunctis praeposuimus, primamque speciem esse monstravimus, licet hoc nobis posterioris operis ordine clarescat, hic quoque perstringentes id quod proposuimus planissime breviterque doceamus. Sit enim talis descriptio, in qua ponatur in ordinem, usque ad denarium numerum, continui numeri ordo naturalis, et secundo versu, duplus ordo texatur, tertio triplus, quarto quadruplus, et hoc usque ad decuplum. Sic enim cognoscemus quemadmodum superparticulari et superpartienti, et cunctis aliis princeps erit species multiplicis, et quaedam alia simul inspiciemus et ad subtilitatem tenuissima, et ad scientiam utilissima, et ad [1104B] exercitationem mentis jocundissima.

**CAPUT XXVII.** *Ratio atque expositio digestae formulae.* [1103C]

Si igitur duo prima latera propositae formulae quae faciunt angulum, ab uno ad 10, et 10 procedentia respiciantur, et his subteriores ordines comparentur, qui scilicet a 4 angulum incipientes, in vigenos terminum ponunt, duplex, id est prima species multipliciter ostenditur, ita ut primus primum sola superet unitate, ut duo unum, secundus secundum binario supervadat, ut quaternarius binarium, tertius tertium tribus, ut senarius ternarium, quartus quartum, quaternarii numerositate transcendat, ut 8 quaternarium, et per eandem cuncti sequentiam sese minoris pluralitate praetereant. Si vero tertius angulus aspiciatur, qui ab 9 inchoans, longitudinem latitudinemque tricenis altrinsecus numeris extendit, et [1104C] hic cum prima latitudine et longitudine comparetur, triplex species multipliciter occurrit, ita ut ista comparatio per X litteram fiat. Hicque se numeri superabunt secundum paritatis factam naturaliter connexionem. Primus enim primum duobus superat, ut unum 3, secundus secundum quaternario, ut binarium senarius, tertius tertium sex, ut ternarium novenarius, et ad eundem caeteri modum progressionis aurescunt.

Quam rem nobis, scilicet, et ipsa naturalis objecit integritas, nihil nobis extra machinantibus, ut in ipso modulo descriptionis apparet. Si quis autem quarti anguli terminum qui sedecim numeri quantitate notatus est, et longitudinem latitudinemque in quadragenos determinat, velit superioribus comparare, per X litterae formam proportione collata, quadrupli multitudinem [1105A] pernotabit. Hisque est ordinabilis super se progressio, ut primus primum tribus superet, ut 4 unitatem. Secundus secundum senario vincat, ut octo binarium. Tertius tertium novenario transeat, ut duodenarius ternarium, et sequentes summulae trium se semper adjecta quantitate transilient. Et si quis subteriores aspiciat angulos, idem per omnes multipliciter species, usque ad decuplum dispositissima ordinatione perveniet. Si quis vero in hac descriptione, superparticularis species requirat, tali modo reperiet. Si enim secundum angulum notet, cujus est initium quaternarius, eique superjacet binarius, atque hunc sequentem quis accommodet ordinem, sesquialtera proportio declarabitur. Nam tertius secundi versus, sesquialter est, ut tres ad duo, vel sex [1105B] ad quatuor, vel 9 ad 6, vel 12 ad 8. Itemque in caeteris qui sunt in eadem serie numeri, si talis conjugatio misceatur, nulla varietatis dissimilitudo surripiet. Eadem tamen summarum supergressio est in hoc quoque, quae in duplicibus fuit. Primus enim primum, id est ternarius binarium uno superat, secundus vero secundum, duobus tertius, tertium tribus, et deinceps. Si vero quartus ordo tertio comparetur, ut 4 ad 3, et eodem caeteros ordine consecuteris, sesquitertia comparatio colligitur, ut 4 ad 3, vel 8 ad 6, et 12 ad 9, videsne ut in omnibus his sesquitertia comparatio conservetur? Praeterea eos qui sub ipsis sunt, si idem faciens sequentes versus alterutris comparaveris, omnes sine ullo impedimento species superparticularis agnosces. Hoc autem in hac est dispositione [1105C] divinum, quod omnes angulares numeri tetragoni sunt. Tetragonus autem dicitur, ut brevissime dicam, quod post latius explicabitur, quem duo aequales numeri multiplicent, ut in hac quoque descriptione est; unus enim semel, unus est, et est potestate tetragonus. Item bis duo 4 sunt. Ter 3 9, quos in semetipsas multiplicationes primi ordinis perfecere. Circum ipsos vero qui sunt, id est circum angulares, longilateri numeri sunt. Longilateros autem voco, quos uno se supergredientes numeri multiplicent. Circum 4 enim 2 sunt et 6, sed duo nascuntur ex uno et duobus, cum unum bis multiplicaveris, sed unitas a binario unitate praeceditur. Sex vero a duobus et tribus, bis enim tres senarium reddunt. Novenarium vero, sex et 12 claudunt, qui 12 ex tribus nascuntur et 4. Ter enim 4 fiunt 12. Senarius [1105D] vero, ex duobus et tribus, bis enim 3 faciunt 6. Qui omnes, uno majoribus lateribus procreati sunt. Nam cum 6 ex binario ternarioque nascuntur, tres binarium numerum uno superant. Cunctique alii ejusdem modi sunt, ut primo et secundo ordine ad alterutrum multiplicatis terminis procreentur, ita ut quod nascitur ex duobus longilateris altrinsecus positus, et bis medio tetragono, tetragonus sit. Et rursus quod ex duobus altrinsecus tetragonis, et uno medio longilatero bis facto nascitur, ipse quoque tetragonus sit. Et ut angulorum totius descriptionis ad angulares tetragonos positorum unius anguli sit prima unitas, alterius vero qui contra est tertia. Bini vero altrinsecus [1106A] anguli, secundas habeant unitates, et duo angularium tetragonorum anguli, aequum faciunt quod sub ipsis continetur, illi quod fit ab uno illorum qui est altrinsecus angulorum. Multa enim sunt alia quae in hac descriptione utilia possunt admirabiliaque perpendi, quae interim propter castigatam introducendi breviter ignota esse permittimus. Nunc vero ad sequentia propositum convertamus.

**CAPUT XXVIII.** *De tertia inaequalitatis specie quae dicitur superpartiens, deque speciebus ejus, earumque generationibus.*

Igitur post duas primas habitudines multiples et superparticulares, et eas quae sub ipsis sunt submultiplices et subsuperparticulares, tertia inaequalitatis species invenitur, quae a nobis superius superpartiens dicta est. Haec est autem, quae fit cum numerus [1106B] ad alium comparatus, habet eum totum infra se, et ejus insuper aliquas partes, vel duas, vel 3, vel 4, vel quot ipsa tulerit comparatio. Quae habitudo incipit a duabus partibus tertiis. Nam si duas medietates habuerit, qui illum intra se totum coercet, duplus pro superpartiente componitur. Habebit autem vel duas tertias, vel duas quintas, vel duas septimas, vel duas nonas, et ita progredientibus si duas solas partes minoris numeri superhabuerit, per easdem partes imparibus numeris minorem major summa transcendit. Nam si eum habeat totum et duas ejus quartas, superparticularis necessario reperitur. Nam duae quartae medietas est, et fit sesquialtera comparatio. Si vero duas sextas, rursus est superparticularis. Duae enim sextae, pars tertia est. Quod si in [1106C] comparatione ponatur, sesquitergiae habitudinis efficiet formam. Post hos nascuntur

comites, qui subsuperpartientes vocantur; hi autem sunt qui habentur ab alio numero, et eorum vel duae, vel 3, vel 4, vel quotlibet aliae partes. Si ergo numerus alium intra se numerum habens, ejus duas partes habuerit, superbipartiens nominatur; si vero tres, supertripartiens; quod si 4, superquadripartiens, atque ita progredientibus in infinitum fingere nomina licet. Ordo autem eorum naturalis est, quoties disponuntur a tribus omnes pares atque impares numeri naturaliter constituti, et sub his aptantur alii qui sunt a quinario numero incipientes omnes impares. His igitur ita dispositis, si primus primo, secundus secundo, tertius tertio, et caeteri caeteris comparentur, [1106D] superpartiens habitudo procreatur. Sit enim dispositio hoc modo: Si igitur quinary numeri ad ternarium comparatio consideretur, erit superpartiens ille qui vocatur superbipartiens. Habet enim quinary totos in se tres, et eorum duas partes, id est 2. Si vero ad secundum ordinem speculatio referatur, supertripartiens proportio cognoscetur, atque in sequentibus per omnes dispositos numeros, omnes in infinitum species hujus numeri convenientes ordinatasque respicies. At vero quemadmodum singuli procreentur, si in infinitum [1107A] quis curet agnoscere, hic modus est. Habitudo enim superbipartientis, si utrisque terminis duplicetur, semper superbipartiens proportio procreatur. Si enim quis duplicet 5, faciet 10; si tres, faciet 6: qui 10 contra senarium comparati, superbipartientem faciunt habitudinem, et hos ipsos rursus si duplicaveris, idem ordo proportionis accrescit. Idemque si in infinitum facies, statum prioris habitudinis non mutabit. Si vero supertripartientes invenire contendas, primos supertripartientes, id est 7 et 4 triplicabis, et hujusmodi nascentur. Si vero qui ex his nati fuerint, ternarii multiplicatione produxeris, idem rursus efficient. Quod si superquadripartientes quemadmodum in infinitum progrediantur optes addiscere, primas eorum radices in quadruplum [1107B] multiplices licet, id est 9 et 5, et eos qui illa multiplicatione proferentur, rursus in quadruplum, et eandem fieri proportionem inoffensa nimirum ratione reperies. Et caeterae species una semper plus multiplicatione crescentibus radicibus oriuntur. Radices autem proportionum voco, numeros in superiore dispositione descriptos, quasi quibus omnis summa supradictae comparationis innititur. In hoc quoque videndum est quoniam, cum duae partes minore plus in majoribus sunt, tertii semper vocabulum subauditur. Ut superbipartiens qui dicitur, quoniam duas minoris numeri tertias partes habet, dicatur superbipartiens tertias. Et cum dico supertripartiens, subaudiri necesse sit supertripartiens quartas, quoniam tribus superquartis exuberat. Et [1107C] superquadripartientis, subauditur superquadripartiens quintas, et ad eundem modum in caeteris, uno semper adjecto super habitas partes, subauditio facienda est, ut eorum germana convenientiaque his nomina haec sint, ut qui dicitur superbipartiens, idem dicatur superbitertius. Qui dicitur supertripartiens, is sit supertriquartus, et qui dicitur superquadripartiens, idem dicatur superquadriquintus, eademque similitudine usque in infinitum nomina producantur.

#### CAPUT XXIX. De multiplici superparticulari.

Igitur relatae ad aliquid quantitatis, simplices et primae species hae sunt. Duae vero aliae, ex his velut ex aliquibus principiis componuntur, ut multiplices [1107D] superparticulares, et multiplices superpartientes, horumque comites submultiplices superparticulares, et submultiplices superpartientes. Namque in his ut in praedictis proportionibus, minores numeri, et eorum quoque species omnes, addita *sub* praepositione, dicuntur. Quorum definitio talis reddi potest: multiplex superparticularis est, quotiens numerus ad numerum comparatus, habet eum plus quam semel et ejus unam partem, hoc est, habet eum aut duplum, aut triplum, aut quadruplum, aut quotienslibet, et ejus quamlibet aliquam partem, vel mediam, vel tertiam, vel quartam, vel quaecunque alia partium exuberatione contigerit. Hic ergo et multiplici et superparticulari consistit. Quod enim comparatum [1108A] numerum plus quam semel habet, multiplicis est. Hoc vero quod minorem in habenda parte transcendit, superparticularis. Ita ex utroque nomine facto vocabulo, est, speciesque illius ad illarum, scilicet, fiunt imaginem proportionum, ex quibus ipse numerus originem trahit. Nam prima pars hujus vocabuli quae multiplicis nomine possessa est, multiplicis numeri specierum vocabulo nominanda est. Quae vero superparticularis est, eodem vocabulo nuncupabitur, quo superparticularis numeri species vocabantur. Dicetur enim qui duplicem habuerit alium numerum, et ejus mediam partem, duplex sesquialter; qui vero tertiam, duplex sesquiertius; qui quartam, duplex sesquiquartus, et deinceps. Si vero ter eum totum contineat et ejus mediam partem, vel tertiam, vel [1108B] quartam, dicitur triplex sesquialter, triplex sesquiertius, triplex sesquiquartus, et eodem modo in caeteris. Diceturque quadruplus sesquialter, quadruplus sesquiertius, quadruplus sesquiquartus, et quotiens totum numerum in semetipso continuerit, per multiplicis numeri species appellatur, quam vero partem comparati numeri clauserit, secundum superparticularem comparationem habitudinemque vocabitur. Horum autem exempla hujusmodi sunt: duplex sesquialter est, ut quinque ad duo, habent enim 5, binarium numerum bis et ejus mediam, id est 1. Duplex vero sesquiertius est, septenarius ad ternarium comparatus. At vero novenarius ad quaternarium, duplex sesquiquartus. Si vero 11 ad 5, duplex sesquiquintus. Et hi semper nascentur, dispositis [1108C] in ordinem a binario numero omnibus naturaliter paribus imparibusque terminis, si contra eos omnes a quinario numero impares comparentur, ut primum primo, secundum secundo, tertium tertio, caute et diligenter apponas, ut sit dispositio talis: Si vero a duobus paribus omnibus dispositis terminis, illi qui a quinario numero inchoantes, quinario numero rursus sese transiliunt comparentur, omnes duplices sesquialteros creant, ut est subjecta descriptio. [1108D] Si vero a tribus inchoent dispositiones, et tribus sese transilient, et ad eos aptentur

qui a septenario inchoantes, septenario sese numero transgrediuntur, omnes duplices sesquitercii, habita diligenter comparatione, nascuntur, ut subjecta descriptio monet.

Si vero omnes in ordinem quadrupli disponantur, hi qui naturalis numeri quadrupli sunt, ut unitatis quadruplus, et duorum, triumque et quatuor, atque quinarii, et caeterorum sese sequentium, ut ad eos aptentur a novenario numero inchoantes, semper sese novenario praecedentes, tunc duplicis sesquiquartae proportionis forma textetur. **[1109A]** Ea vero species hujus numeri, quae est triplex sesquialtera, hoc modo procreatur; si disponantur a binario numero omnes in ordinem pares, et ad eos septenario numero inchoantes, septenario sese supergredientes, solito ad alterutrum modo comparationis aptentur.

Si autem a ternario numero ingressi, cunctos naturalis numeri triplices disponamus, et eis a denario numero denario sese supergredientes ordine comparemus, omnes triplices sesquitercii in ea terminorum **[1109B]** continuatione provenient.

**CAPUT XXX.** *De eorum exemplis in superiore formula inveniendis.*

Horum autem eorumque qui sequuntur exempla integre planeque possumus pernotare, si in priorem descriptionem, quam fecimus cum de superparticulari et multiplici loqueremur, ubi ab uno usque in denarium multiplicationum summa concrevit, diligens velimus acumen intendere. Ad primum enim versum omnes qui sequuntur collati, ordinatas convenientesque multiplicis species reddent. Si vero ad **[1109C]** secundum cunctos qui tertii sunt ordinis aptaveris, ordinatas species superparticularis agnosces. Quod si tertio ordini, quicumque sunt in quinto versu compares, superpartientis numeri species positae convenienter aspicias. Multiplex vero superparticularis ostenditur, cum ad secundum versum omnes qui sunt quinti versus serie comparantur, vel qui sunt in septimo, vel qui sunt in nono, atque ita si in infinitum sit ista descriptio, in infinitum hujus proportionis species procreabuntur. Manifestum autem etiam hoc est, quod horum comites semper cum *sub* praepositione dicentur, ut est subduplex sesquialter, subduplex sesquitercius, subduplex sesquiquartus, et caeteri quidem ad hunc modum.

**CAPUT XXXI.** *De multiplici superpartiente.* **[1109D]**

Multiplex vero superpartiens est, quoties numerus ad numerum comparatus habet in se alium numerum totum plus quam semel, et ejus vel duas, vel 3, vel quotlibet plures particulas, secundum numeri superpartientis figuram. In hoc quoque propter causam superius dictam, non erunt duae medietates, neque duae quartae, neque duae sextae, sed duae tertiae, vel duae quintae, vel duae septimae, ad priorem similem consequentiam. Non est autem difficile secundum priorum exempla positorum, hos quoque et praeter nostra exempla numeros invenire. Vocabunturque hi, secundum proprias partes, duplex superbipartiens, vel duplex supertripartiens, vel duplex superquadripartiens. Et rursus triplex superbipartiens, **[1110A]** et triplex supertripartiens, et triplex superquadripartiens, et similiter. Ut 8 ad 3 comparati faciunt duplicem superbipartientem, et 16 ad 6, et omnes quicumque ab 8 incipientes, octonario sese numero transgrediuntur, comparati ad eos qui a tribus inchoantes, ternarii sese quantitate praetereunt. Nec erit difficile alias ejus partes secundum praedictum modum diligentibus reperire. Hic quoque illud meminisse debemus quod minores et comites non sine *sub* praepositione nominantur, ut sit subduplex superbipartiens, subduplex supertripartiens.

**CAPUT XXXII.** *Demonstratio quemadmodum omnis inaequalitas ab aequalitate processerit.*

Restat autem nobis profundissimam quamdam **[1110B]** tradere disciplinam, quae ad omnem naturae vim rerumque integritatem maxima ratione pertineat. Magnus quippe in hac scientia fructus est, si quis non nesciat quod bonitas definita est et sub scientiam cadens, animo que semper imitabilis et perceptibilis prima natura est, et suae substantiae decore perpetua. Infinitum vero malitiae dedecus est, nullis propriis principiis nixum, sed natura semper errans a boni definitione principii, tanquam aliquo signo optimae figurae impressa componitur, et ex illo erroris fluctu retinetur. Nam nimiam cupiditatem iraeque immodicam effrenationem, quasi quidam rector animus, pura intelligentia roboratus, astringit, et has quodammodo inaequalitatis formas, temperata bonitate **[1110C]** constituit. Hoc autem erit perspicuum, si intelligamus omnes inaequalitatis species, ab aequalitatis crevisse primordiis, ut ipsa quodammodo aequitas, matris et radicis obtinens vim, ipsa omnes inaequalitatis species ordinesque profundat. Sint enim nobis tres aequales termini, id est tres unitates, vel tres bini, vel tres terni, vel tres quaterni, vel quantos ultra libet ponere. Quod enim in unis tribus terminis evenit, idem contingit in caeteris. Ex his igitur, secundum praecepti nostri ordinem, videas primum nasci multiplices, et in his duplices prius dehinc triplos, deinde quadruplos, et ad eundem ordinem consequentes. Rursus, multiplices si convertantur, ex his superparticulares orientur, et ex duplicibus quidem, sesquialteri, ex triplicibus sesquitercii, ex **[1110D]** quadruplis sesquiquarti, et caeteri in hunc modum. Ex superparticularibus vero conversis,

superpartientes nasci necesse est, ita ut ex sesquialtero nascatur superbipartiens, supertripartientem sesquiertius gignat, et ex sesquiquarto superquadripartiensi. Rectis autem positis, neque conversis prioribus superparticularibus, multiplices superparticulares oriuntur. Rectis vero superpartientibus, multiplices superpartientes efficiuntur. Praecepta autem tria haec sunt, ut primum numerum primo facias parem, secundum vero primo et secundo, tertium primo, duobus secundis et tertio. Hoc igitur cum in terminis aequalibus feceris, ex his qui nascentur duplices erunt. De quibus duplicibus si idem feceris, triplices procreantur, et de his quadruplices, atque in infinitum omnes [1111A] formas numeri multiplices explicabit. Jaceant igitur 3 termini aequales. Ponatur itaque primo primus aequalis, id est unus. Secundus vero, primo et secundo, id est 2; tertius vero primo, duobus secundis et tertio par sit, id est uni et duobus unis et uni, qui sunt 4, ut est descriptio: Videsne ut duplici proportione sequens ordo textatur. Fac rursus idem de duplicibus, ut sit primus primo aequalis, id est uni; secundus primo et secundo, [1111B] id est uni et duobus, qui sunt 3; tertius primo, id est uni, duobus secundis, id est 4, et tertio, id est quatuor, qui simul 9 fiunt, et venit haec forma: Rursus, si de triplicibus idem feceris, continuus quadruplus procreabitur. Sit enim primus primo aequus, id est unus; sit secundus primo et secundo aequalis, id est 4; sit tertius primo, duobus secundis et tertio aequalis, id est 16. [1111C] Et in caeteris quidem ad hanc formam, tribus his praeceptis utemur. Si vero qui ex aequalibus nati sunt multiplices, eos disponamus, et secundum haec praecepta vertamus, ita ut converso sint ordine, sesquialter ex duplici procreabitur, sesquiertius ex triplici, sesquiquartus ex quadruplo. Sint enim 3 duplices termini, qui ex aequalibus creati sunt, et qui ultimus est, primus ponatur hujusmodi: Et constituatur primo in hoc ordine, primus par, id est 4, secundus vero primo et secundo par, id est [1111D] 6, tertius vero primo, duobus secundis et tertio, id est 9. Ecce tibi illa sesquialtera quantitas ex termino duplicitatis exoritur. Videamus nunc ad eundem modum ex triplici qui nascatur; disponantur enim triplices superiores, converso scilicet ordine sicut duplex, hic est quoque ordo dispositus: Ponatur ergo primus primo aequus, id est 9; secundus primo et secundo, id est 12; tertius primo, duobus secundis et tertio aequus, id est 16. [1112A] Rursus secunda species superparticularis numeri, id est sesquiertius procreatus est. Quod si idem de quadruplo quis facere velit, sesquiquartus continuo nascetur, ut monstrabit subjecta descriptio: Ac si quis idem de cunctis in infinitum partibus multiplicatis faciat, convenienter ordinem superparticularitatis inveniet. Quod si conversos superparticulares aliquis secundum haec praecepta convertat, continuo videat superpartientes accrescere, et ex sesquialtero quidem superbipartiens, ex sesquiertio supertripartiens procreatur, et caeteri secundum communes denominationis species, sine ulla ordinis interpolatione [1112B] nascentur. Disponantur igitur sic: Superioris igitur descriptionis, primo primus aequus numerus ascribatur, id est 9, secundus vero primo et secundo, id est 15, tertius vero primo, duobus secundis et tertio, id est 25. Si ergo sesquiertium eodem modo vertamus, ordo supertripartiens invenitur. Sit enim prima propositio sesquiertii. Ponatur secundum priorem modum, primo par primus, [1112C] id est 16; secundus primo et secundo, id est 28; tertius primo, duobus secundis et tertio, id est 49. Omnis ergo summa disposita supertripartientes efficiet. Rursus si sesquiquartum eodem modo verteris, superquadripartiensi statim quantitas procreabitur, ut est ea forma quam suppositam vides. Restat quemadmodum ex superparticularibus et superpartientibus multiplices superparticulares et multiplices [1112D] superpartientes nascantur, ostendere. Quorum binas tantum faciam descriptiones, namque si rectum et non conversum sesquialterum ponimus, duplex superparticularis excrescit; fit enim hoc modo: Ponatur secundum superiorem modum primo, primus aequalis, id est 4; secundus primo et secundo, id est 10; tertius primo, duobus secundis et tertio aequalis, id est 25. Atque haec quidem duplex sesquialtera summa producta est. Si vero sesquiertium non conversum ponamus, duplus sesquiertius invenitur, ut subjecta descriptio docet. [1113A] At vero si ad superpartientes animum convertamus, eosque ordinatim secundum superiora praecepta disponamus, multiplices superpartientes ordinatim progenitos reperiemus. Disponatur enim superpartientis haec formula: Ascribatur ergo primus, primo aequus, id est 9; secundus primo et secundo, id est 24; tertius primo, duobus secundis et tertio, id est 64. [1114A] Videsne ut ex superbipartiente duplus superbipartiens exortus sit. At vero si supertripartientem ponam, duplex sine dubio tripartiensi invenitur, ut in subjecta descriptione perspicuum est: Sic ergo de superparticularibus vel de superpartientibus multiplices superparticulares vel multiplices superpartientes oriuntur. Quare constat omnium inaequalitatum aequalitatem esse principium, ex eadem enim inaequalia cuncta nascuntur. Ac de his quidem hactenus disserendum esse credimus, ne vel infinita sectemur, vel circa res obscurissimas ingredientium animos detinentes, ab utilioribus moraremur.

## LIBER SECUNDUS. [1113]

### CAPUT PRIMUM. *Quemadmodum ad aequalitatem omnis inaequalitas reducatur.* [1113B]

Superioris libri disputatione digestum est quemadmodum tota inaequalitatis substantia a principe sui generis aequalitate processerit. Sed quae rerum elementa sunt, ex eisdem principaliter omnia componuntur, et in eadem rursus resolutione facta resolvuntur. Ut quoniam articularis vocis elementa sunt litterae, ab eis est syllabarum progressa conjunctio, et in easdem rursus terminatur extremas, eandemque vim obtinet sonus in musicis. Jam vero mundum 4 corpora non ignoramus efficere. Namque (ut ait) [1113C] ex imbri terraque omnia gignuntur et



igni; sed in haec rursus ejus 4 elementa fit postrema resolutio. Ita igitur, quoniam ex aequalitatis margine cunctas inaequalitatis species proficisci videmus, omnis a nobis inaequalitas ad aequalitem rursus, velut ad quoddam elementum proprii generis resolvatur. Hoc autem trina rursus imperatione colligitur, eaque resolvendi ars. Datis quibuslibet tribus terminis, inaequalibus quidem, sed proportionaliter constitutis, id est, ut eandem medius ad primum vim proportionis obtineat, quam qui est extremus ad medium in qualibet inaequalitatis ratione, vel in multiplicibus, vel in superparticularibus, vel in superpartientibus, vel in iis **[1113D]** quae ex his procreantur, hoc est multiplicibus superparticularibus, vel multiplicibus superpartientibus, eadem atque una ratione indubitata constabit. Propositis enim tribus (ut dictum est) terminis, aequis proportionibus ordinatis, ultimum semper medio detrahimus, et ipsum quidem ultimum, primum terminum colloceamus, quod de medio relinquatur, secundum. De tertia vero propositorum terminorum summa auferemus unum primum, et duos secundos eos qui de medietate relictis sunt, et id quod ex tertia summa relinquatur, tertium terminum constituemus. Videbis igitur hoc facto, in minorem modum summas reverti, et ad principaliorum habitudinem comparationes **[1114B]** proportionumque reduci, ut si sit quadrupla proportio, primo ad triplam, inde ad duplam, inde ad aequalitatem usque remeare. Et si sit superparticularis sesquiquartus, primo ad sesquitercium, inde ad sesquialterum, postremo ad tres aequales terminos redire. Hoc autem nos exempli gratia in multiplici tantum proportionem docebimus. Solertem vero, in aliis quoque inaequalitatis speciebus id experientem, eadem ratio praeceptorum juvabit. Constituantur enim tres ad se termini quadrupli. Aufer igitur ex medio minorem, id est ex triginta duobus, octonarium, relinquuntur 24, et primum **[1114C]** octonarium terminum pones, secundum vero, quod reliquum fuerit ex medio, id est 24, ut sint hi duo termini, 8 et 24. De tertio vero, id est 128, aufer unum primum, id est 8, et duos secundos qui sunt reliqui, id est bis 24, et relinquuntur 72. His dispositis terminis, ex quadrupli propinquior aequitati proportio, tripla redacta est. Sunt enim termini: Ex his autem ipsis idem si feceris, ad duplum rursus comparatio remeabit. Pone enim primum minori aequum, id est 8, et ex secundo aufer primum, 16 relinquuntur. Sed ex tertio, id est ex 72, aufer primum, **[1114D]** id est 8, et duos secundos, id est bis 16, et erit reliqua pars 32. Quibus positis, ad duplas proportionem habitudo redigitur. Idem vero ex his si fiat, rem omnem ad aequalitatis summas eliquabimus. Pone enim primum minori aequum, id est 8, et aufer ex 16 octonarium, remanent 8, quibus dispositis, ex tertio, id est 32, sumptis primo, id est 8, et duobus secundis, id est duobus octonariis, supersunt 8. Quibus dispositis, prima nobis aequalitas cadit, ut subjectae summulae docent. **[1115A]** Hinc igitur si quis ad alias inaequalitatis species animum tendat, eandem convenientiam intubanter inveniet. Quare pronuntiandum est, nec ulla trepidatione dubitandum, quod quemadmodum per se constantis quantitatis unitas principium et elementum est, ita et ad aliquid relatae quantitatis aequalitas mater est. Demonstravimus enim quod hinc et ejus procreatio prima foret, et in eam rursus postrema solutio est.

**CAPUT II.** *De inveniendis in unoquoque numero quot numeros ejusdem proportionis possit praecedere, eorumque descriptio, descriptionisque expositio.*

Est autem quaedam in hac re profunda et miranda speculatio, et (ut ait Nicomachus)  $\epsilon\nu\nu\omicron\iota\phi\alpha\tau\omicron\nu\ \theta\epsilon\acute{o}\rho\eta\mu\alpha$  **[1115B]** perficiens, et ad Platonicam in Timaeo animae generationem, et ad intervalla harmonicae disciplinae. Ibi enim jubemur perducere atque extendere tres vel quatuor sesquialteros, vel quotlibet sesquitercias proportionem, et sesquiquartas comparationem, eas quae secundum propositum ordinem, saepe continuas jubemur extendere. Ne autem hoc, labore quodam semper quidem maximo, frequentius inferaci fiat, hac nobis ratione, in quot numeris quanti possint esse superparticulares, investigandum est. Omnes enim multiplices, tantarum similium sibimet proportionum principes erunt, quoto ipsi loco ab unitate discesserunt. Quod autem dico, sibimet similium tale est, ut dupli semper multiplicitas (ut superius dictum est) sesquialteros creet, et triplex sit dux sesquitercium, **[1115C]** quadruplus sesquiquartus. Primus ergo duplex unum solum habebit sesquialterum, secundus duos, tertius tres, quartus quatuor, et secundum hunc ordinem eadem fit in infinitum progressio. Neque unquam fieri potest ut vel superet proportionum numerum, vel ab eo sit diminutior aequabilis ab unitate locatio. Primus ergo duplex est binarius numerus, qui unum solum sesquialterum recipit, id est ternarius. Binarius enim contra ternarium comparatus sesquialteram efficit proportionem. Ternarius vero, quoniam medietatem non recipit, non est alter numerus ad quem in ratione sesquialtera comparetur. Quaternarius vero numerus, secundus duplex est, hic ergo duos sesquialteros praecedat. Est enim ad ipsum quidem comparatus senarius numerus, ad **[1115D]** senarium vero, quoniam medietatem habet novenarius, et sunt duo sesquialteri, ad 4 scilicet 6, ad sex vero 9. Novenarius vero, quoniam medietate caret, ab hac comparatione seclusus est. Tertius vero duplex est 8, hic ergo 3 sesquialteros antecedit. Comparatur enim ad ipsum duodenarius numerus, ad duodenarium 18, ad 18 rursus 27. At vero 27 medio caret. Idem quoque in sequentibus evenire necesse est quod nos cum propria ordinatione subdidimus. Semper enim hoc, divina quadam nec humana constitutione, speculationibus occurrit, ut quotienscunque ultimus numerus invenitur, qui loco duplicis ab unitate sit par, talis sit ut in medietates dividi secarique non possit. **[1116A]** Idem contingit etiam in triplicibus, ex illis enim sesquitercii procreantur. Nam quoniam primus triplex est ternarius numerus, habet unum sesquitercium, id est 4. Cujus quaternarii tertia pars non potest inveniri, atque ideo hic epitrito caret. Secundus vero, qui est novem, habet ad se duodenarium numerum sesquitercium. Duodenarius autem, quoniam habet tertiam partem, in sesquitercia proportione comparatur **[1116B]** ad eum numerum sedecim, qui tertiae partis sectione solutus est. Viginti septem autem,

quoniam tertius est triplex, habet ad se sesquiertium triginta sex, et hic rursus ad quadraginta octo eadem proportione comparatur. Cui si sexaginta quatuor appositi fuerint, eandem rursus vim proportionis explebunt. Quos sexaginta quatuor ad nullum sesquiertium rursus aptabis, quoniam parte tertia non tenentur. Atque hoc in cunctis triplicibus invenitur, ut extremus ejusdem proportionis numerus, tantos ante se praecedentes habeat, quanto primus eorum ab unitate discesserit. Et qui tot super se ejusdem proportionis habuerit numeros, quotus ab unitate primus eorum jacet, ejus pars qua illi comparatus numerus, possit eandem facere proportionem, inveniri nequeat. Et [1116C] triplicis quidem haec est descriptio: At quadrupli secundum hanc formam descriptio est, ad quam scilicet, qui a prioribus instructus accesserit, nulla ratione trepidabit, et de caeteris quidem multiplicibus, eandem convenientiam pernotabit. [1116D] Hinc quoque perspicuum est, superparticularium (quemadmodum prius ostensum est) primos esse multiplices. Siquidem duplices sesquialteros, triplices sesquiertios, et cuncti multiplices cunctos in ordinem superparticulares creat. Est etiam in his hoc quoque mirabile. Namque ubi prima latitudo fuerit duplex, et sub eisdem qui sunt versus continui alternatim positi, secundum seriem latitudinis duplices erunt. Si vero fuerint triplices et inferiores ordines, [1117A] tripla se in suis terminis multiplicatione superabunt. At in quadrupla, quadrupli, atque hoc infinita ductum speculatione non fallit. Angulares autem omnium multiplices evenire necesse est. Erunt autem duplicium quidem triplices, triplicium quadruplices, quadruplorum vero quincupli, et secundum eandem ordinis incommutabilem rationem, sibimet cuncta consentient, quibus expositis, ad sequentem operis seriem competens disputatio convertatur.

**CAPUT III.** *Quod multiplex intervallum ex quibus superparticularibus medietate posita, intervallis fiat, ejusque inveniendi regula.*

Si igitur duae primae superparticulares species conjungantur, [1117B] prima species multiplicis exoritur. Omnis autem duplex ex sesquialtero sesquiertioque componitur, et omnis sesquialter et sesquiertius duplicem jungunt. Nam ternarius, sesquialter est duorum, quatuor vero, sesquiertius ternarii, sed 4 duplus duorum. [1117C] Sic igitur sesquialter et sesquiertius unum duplicem componunt. At vero si fuerint medietas et duplus, inter duplicem et medium potest una medietas talis inveniri, quae ad alteram extremitatem sesquialtera sit, ad alteram sesquiertia. Altrinsecus enim positus senario et ternario, id est duplici et medietate, si quaternarius in medio collocetur, ad ternarium numerum sesquiertiam continet rationem, ad senarium vero sesquialteram. [1117D] Recte igitur dictum est, et duplicem a sesquialtero sesquiertioque conjungi, et has duas superparticularis species duplicem procreare, id est primam speciem multiplicis quantitatis. Rursus ex prima multiplicis specie, id est ex duplici, et prima superparticulari, id est sesquialtera, continens multiplicis species, id est tripla conjungitur. Namque 12 senarii numeri duplus est, decem vero et octo, ad duodenarium sesquialter, qui ad senarium numerum triplus est. [1118A] Et positus eisdem, 6 et 18, novenarius in medietate ponatur, erit ad senarium sesquialter, qui ad 18. Subduplus est, et ad senarium 18 triplus est. [1118B] Ex duplici igitur et sesquialtero, triplex ratio proportionis exoritur, et in eas rursus resolutione facta revocatur. Si autem hic, id est triplus numerus, qui est species secunda multiplicis, secundae speciei superparticularis aptetur, quadrupli continuo forma [1118C] contextitur, et in easdem rursus partes naturali partitione solvetur, secundum modum quem superius demonstravimus. Si vero quadruplus sese ac sesquiquar us agglomerent, [1118D] quincuplus continuo fiet: Et si quincuplus cum sesquiquinto, mox sescupla proportio conjugabitur. [1119A] Atque ita secundum hanc progressionem cunctae multiplicis species sine ulla rati ordinis permutatione nascentur. Ita vero ut duplus cum sesquialtero triplicem creet, et triplus cum sesquiertio, quadruplum, quadruplus cum sesquiquarto, quincuplum, [1119B] et caeteri eodem modo, ut nullus hanc continuationem finis impediatur.

**CAPUT IV.** *De per se constante quantitate, quae in figuris geometricis consideratur; communis ratio omnium magnitudinum.*

Haec quidem de quantitate quam secundum ad aliquid speculamur, ad praesens dicta sufficiant. Nunc autem in hac sequentia, quaedam de ea quantitate quae per seipsam constat, neque ad aliquid refertur, expediam, quae nobis ad ea prodesse possunt, quae post haec rursus de relata ad aliquid quantitate tractabimus. Amat enim quodammodo matheseos speculatio alterna probationum ratione constitui. Nunc autem nobis de his numeris sermo futurus [1119C] est, qui circa figuras geometricas et earum spatia dimensionesque versantur, id est de linearibus numeris, et de triangularibus vel quadratis, caeterisque quos sola pandit plana dimensio, nec non de inaequali laterum compositione conjunctis. De solidis etiam, id est cubis et sphaericis vel pyramidis, laterculis etiam vel tignulis et cuneis, quae omnia quidem geometricae propriae considerationis sunt. Sed sicut ipsa geometricae scientia ab arithmetica velut quadam radice ac matre producta est, ita etiam ejus figurarum semina in primis numeris invenimus. Planum siquidem fecimus quod omnes disciplinas haec interempta consumeret, quas minime constituta infirmaret. Hoc autem cognoscendum est quod haec signa numerorum posita quae nunc quoque homines [1119D] in summarum designatione describunt, non naturali institutione formata sunt; ut enim quinary subjectam notulam signant de V, vel denarii, quam descripsimus de X, et alias hujusmodi, non natura posuit, sed usus affinxit. Quinque enim vel decem, vel quotlibet alios illis notulis pro compendio notare voluerunt, ne quotiens unitates quis monstrare vellet, totiens ei virgulae ducerentur. Nos autem quotienscunque

aliquid monstrare volumus, in his praesertim formulis, ordinarum virgularum multitudinem non gravamur apponere. Cum enim quinque volumus demonstrare, facimus quinque virgulas, ducimusque eas hoc modo, 1 1 1 1 1, et cum 7 totidem, et cum 10 nihilominus, quia naturalius est quemlibet numerum quantas in [1120A] se retinet, tot unitatibus designare quam notulis. Est igitur unitas vicem obtinens puncti, intervalli, longitudinisque principium, ipsa vero nec intervalli, nec longitudinis capax, quemadmodum punctum principium quidem lineae est atque intervalli, ipsum vero nec intervallum nec linea. Neque enim punctum puncto superpositum ullum efficit intervallum, velut si nihil nulli jungas. Nihil enim est quod ex nullorum procreatione nascatur. Eadem quippe etiam circa aequalitates proportio manet. Nam si quotlibet fuerint termini pares, tantum quidem est a primo ad secundum, quantum a secundo ad tertium. Sed inter primum et secundum, vel secundum et tertium, nulla est intervalli longitudo vel spatium. Si enim tres senarios ponas hoc modo 6, 6, 6, quemadmodum [1120B] primus est ad secundum, sic est secundus ad tertium. Sed inter primum et secundum nihil interest, 6 enim et 6 nulla spatii intervalla disjungunt. Ita etiam unitas in seipsa multiplicata nihil procreat. Semel enim in unum nihil aliud ex se gignit quam ipsa est. Nam quod intervallo caret, etiam vim gignendi intervalla non recipit, quod in aliis numeris non videtur evenire. Omnis enim numerus in seipsum multiplicatus alium quemdam efficit majorem quam ipse est, idcirco quoniam intervalla multiplicata majore sese spatii prolixitate distendunt. Id vero quod sine intervallo est, plus quam ipsa est, pariendi non habet potestatem. Ex hoc igitur principio, id est ex unitate prima omnium longitudo succrescit, quae a binarii numeri principio in cunctos sese numeros [1120C] explicat, quoniam primum intervallum linea est, duo vero intervalla sunt longitudo et latitudo, id est linea et superficies. Tria ergo intervalla sunt, longitudo, latitudo, altitudo, id est linea, superficies atque soliditas. Praeter haec autem alia intervalla inveniri non possunt. Aut enim unum intervallum erit quod longitudo est, aut aliquid quod duobus intervallis expositum est, ut si qua res longitudinem habeat et latitudinem, vel trina intervalli dimensione porrigitur, si longitudine, altitudine, latitudineque censetur, supraque adeo nihil inveniri potest, ut ipsorum sex motuum formae ad intervallorum naturas et numerum componantur. Unum enim intervallum duos in se continet motus, ut in tribus intervallis sex sese motuum summa conficiat [1120D] hoc modo. Est enim in longitudine ante et retro, in latitudine sinistra et dextra, in altitudine sursum ac deorsum. Necesse est autem ut quidquid fuerit solidum corpus, hoc habeat longitudinem, latitudinemque et altitudinem, et quidquid haec tria in se continet, illud suo nomine solidum vocetur. Haec enim tria circa omne corpus inseparabili conjunctione versantur, et in natura corporum constituta sunt. Quare quidquid uno intervallo caret, illud corpus solidum non est. Nam quod duo sola intervalla retinet, illud superficies appellatur. Omnis enim superficies sola longitudine et latitudine continetur, et hic eadem illa conversio remanet. Omne enim quod superficies est, longitudinem et latitudinem retinet, [1121A] et quod haec retinet, illud est superficies. Haec autem superficies uno tantum intervallo solidi corporis dimensione superatur, quae uno rursus intervallo lineam vincit, quae longitudinis naturam retinens, latitudinis experta est. Quae linea eo quod unius est intervalli sortita naturam, a superficie uno intervallo, a soliditate duobus spatiis vincitur. Punctum igitur alio rursus intervallo a linea vincitur, ipsa scilicet quae reliqua est longitudine. Quare si punctum uno quidem intervallo a linea supergreditur, idem a superficie vincitur duobus, tribus vero intervalli dimensionibus a soliditate relinquatur, constat punctum ipsum sine ulla corporis magnitudine vel intervalli dimensione, cum et longitudinis et latitudinis et profunditatis experta sit, omnium intervallorum esse [1121B] principium, et natura insecabile, quod Graeci atomon vocant, id est ita diminutum atque parvissimum, ut ejus pars inveniri non possit. Est igitur punctum primi intervalli principium, non tamen intervallum, et lineae caput, sed nondum linea. Sicut linea quoque superficiei principium est, sed ipsa superficies non est, et secundi intervalli caput est, secundum tamen intervallum ipsa non retinet. Idem quoque et in superficiei rationem cadit, quae et ipsa solidi corporis et triplicis intervalli naturale sortitur initium, ipsa vero nec trina intervalli dimensione distenditur, nec ulla crassitudine solidatur.

#### **CAPUT V. De numero lineari.**

Sic etiam in numero unitas quidem cum ipsa linearis [1121C] numerus non sit, in longitudinem tamen distanti numeri principium est. Et linearis numerus cum ipse totius latitudinis experta sit, in aliud tamen spatium latitudinis extenti numeri sortitur initium. Superficies quoque numerorum cum ipsa solidum corpus non sit, addita tamen altitudini solidi corporis caput est. Hoc autem planius his exemplis liquebit. Linearis numerus est a duobus inchoans, adjecta semper unitate in unum eundemque ductum quantitatis explicata congeries, ut est id quod subjecimus.

#### **CAPUT VI. De planis rectilineis figuris, quodque earum principium sit triangulus.**

Plana vero superficies in numeris invenitur, quotiens [1121D] a tribus inchoatione facta addita descriptionis latitudine, in sequentium se naturalium numerorum multitudine anguli dilatantur, ut sit primus triangulus numerus, secundus quadratus, tertius qui sub quinque angulis continetur, quem pentagonum Graeci nominant; quartus hexagonus, id est qui sex angulis includitur; quintus heptagonus, sextus octogonus, id est qui 7 vel 8 angulorum terminis dilatantur, et caeteri eodem modo singillatim per naturalem numerum angulos augeant, in plana scilicet descriptione figurarum. Hi vero idcirco a ternario numero inchoant, quod latitudinis et superficiei

solus ternarius principium est. In geometrica quoque idem planius invenitur. Duae enim lineae rectae spatium non [1122A] continent, et omnis triangularis figura, vel tetragoni, vel pentagoni, vel hexagoni, vel cujuslibet qui pluribus angulis continetur, si a medietate per singulos angulos lineae producantur, tot eum dividunt trianguli, quot ipsam figuram angulos habere contigerit. Quadratum enim ita ductae lineae in 4, pentagonum in 5, hexagonum in 6, heptagonum in 7, et caeteros in suorum angulorum modo mensuraque per triangulos partiuntur, ut est subjecta descriptio. [1122B] At vero triangula figura cum eam quis ita dividerit, in alias figuras non resolvitur nisi in seipsam, in tria enim triangula dissipatur. Adeo haec figura princeps est latitudinis, ut caeterae omnes superficies in hanc resolvantur, ipsa vero [1122C] quoniam nullis est principiis obnoxia, neque ab alia latitudine sumpsit initium, in sese ipsa resolvatur. Idem autem et in numeris fieri sequens operis ordo monstrabit.

#### **CAPUT VII.** *Dispositio triangulorum numerorum.*

Est igitur primus triangulus numerus qui solis tribus unitatibus dissipatur, secundum superficiei positionem, triangula scilicet descriptione, et post hunc quicumque aequalitatem laterum, in trina laterum spatia segregant.

#### **CAPUT VIII.** *De lateribus triangulorum numerorum.* [1123A]

Ad hunc modum infinita progressio est, omnesque ordine trianguli aequilateri procreabuntur, et primum omnium ponent, id quod ex unitate nascitur, ut haec vi sua triangulus sit, non inde etiam opere atque actu. Nam si cunctorum est mater numerorum, quidquid in iis qui ab ea nascuntur numeris invenitur, necesse est ut ipsa naturali quadam potestate contineat, et hujus trianguli latus est unitas. Ternarius vero qui primus est opere et actu ipso triangulus, crescente unitate binarium numerum latus habebit. Vi enim et potestate primi anguli, id est unitatis, unitas latus est, actu vero et opere trianguli primi, id est ternarii dualitas, quam Graeci [1123B] dyada vocant. Secundi vero trianguli qui opere atque actu secundus est, id est senarii, crescente naturali numero in lateribus ternarius invenitur. Tertius vero, id est denarii, quaternarius latus continet, et quanti vero, id est 15, quinarius latus tenet, et quinti senarius. Idemque usque in infinitum.

#### **CAPUT IX.** *De generatione triangulorum numerorum.*

Nascuntur autem trianguli disposita naturali quantitate numerorum, si prioribus semper multitudo sequentium congregetur. Disponatur enim naturalis numerus hoc modo: Ex his igitur si primum numerum sumam, id est [1123C] unitatem, habeo primum triangulum, qui est vi et potestate, nondum etiam actu nec opere. Huic si secundum aggregavero, qui in naturali numerorum dispositione descriptus est, id est binarium, primus mihi triangulus opere et actu nascitur, id est ternarius. Si vero huic tertium ex naturali numero adjecero, secundus mihi opere et actu triangulus procreatur. Super unum enim et duo si tertium, id est ternarium, aggregavero, senarius extenditur, secundus scilicet triangulus. Huic vero si consequentem quaternarium superposuero, denarius explicatur, qui est tertius actu triangulus, quos per latera disponens, ad superioris descriptionis exemplar, cunctos triangulos numeros sine ullius dubitationis erroribus [1123D] pernotabis, et quantas ultimus numerus in se unitates habet, quem superioribus aggregabis, tot ipse qui fit triangulus unitates habebit in latere. Nam ternarium, qui est primus actu triangulus, adjecto binario unitati feceramus; at hic duos habet in latere, et senarium his adjecta ternarii quantitate produximus, cujus latus soli tres continent, et idem in aliis cunctis quot unitates habentem numerum superioribus aggregabis, tot unitatibus ejus latera continebuntur.

#### **CAPUT X.** *De quadratis numeris.*

Quadratus vero numerus est qui etiam ipse quidem latitudinem pandit, sed non in tribus angulis ut [1124A] superior forma, sed quatuor. Ipse quoque aequali laterum dimensione porrigitur. Sunt autem hujusmodi:

#### **CAPUT XI.** *De eorum lateribus.*

Sed in his quoque secundum naturalem numerum, laterum augmenta succrescunt. Primus enim vi et potentia quadratus, id est unitas, unum habet in latere. Secundus vero, qui actu primus, id est 4, duobus [1124B] per latera positus continetur. Tertius vero, id est novem, qui secundus est opere, tribus in latere positus aggregatur. Et ad eandem sequentiam cuncti procedunt.

#### **CAPUT XII.** *De quadratorum generatione, rursusque eorum lateribus.*

Nascuntur autem tales numeri ex naturalis numeri dispositione, non quemadmodum superiores trianguli, ut ordinatis ad se invicem numeris congregentur, sed uno semper intermisso, qui sequitur, si cum superiori vel

superioribus colligatur, ordinatos ex se quadratos efficiet. Disponatur enim naturalis numerus hoc modo: [1124C] Ex his igitur si unum respiciam, primus mihi natus est potestate quadratus. Quod si uno relicto priori tertium junxero, secundus mihi quadratus efficitur. Nam si uni relicto binario quinarium apposuerim, quaternarius mihi quadratus exoritur. Quod si rursus, relicto medio quaternario, quinarium similiter aggregaverim, quadratus mihi tertius, id est novenarius procreatur. Unus enim et 3 et 5 novem colligunt. At vero si his, intermisso senario, septenarium jungam, tota in 16 ejus summa concrecit, id est quarti quadrati numerositas. Et ut breviter hujus forma procreationis appareat, si cuncti impares sibimet apponantur, collocato scilicet naturali numero, quadratorum [1124D] ordo texetur. Est etiam in his haec naturae subtilitas et immobilis ordinatio, quod tot unitates unusquisque quadratorum retinebit in latere, quanti fuerint numeri ad conjunctionem propriam congregati. Nam in primo quadrato, quoniam ex uno fit, unus est in latere. In secundo, id est quaternario, quoniam ex uno et tribus procreatur, qui duo sunt termini, binario latus textitur, et in novenario, quoniam tribus numeris procreatur, latus ternario continetur. Atque idem in aliis videri licet.

### CAPUT XIII. De pentagonis eorumque lateribus.

Pentagonus vero numerus est qui ipse quidem in [1125A] latitudinem secundum unitatem descriptis quinque angulis continetur, cunctis scilicet lateribus aequali dimensione dispositis. Sunt autem hi: Eodem quoque modo eorum latera succrescunt. Nam primi potestate pentagoni, id est unius, idem unus spatium lateris tenet. Secundi vero quinarium, qui est actu ipso atque opere primus pentagonus, bini per latera fixi sunt. Tertius vero, id est 12, tribus in latus auctus est. Quartus 22, 4 numerorum in latere quantitate distenditur. Atque idem in caeteris secundum unitatis progressionem, in naturali scilicet numero, secundum superiorem figurarum incrementa renduntur. [1125B]

### CAPUT XIV. De generatione pentagonorum. [1125C]

Nascuntur autem hi numeri qui extensi in latitudinem, quinque angulos pandunt, ab eadem naturalis numeri quantitate in sese coacervata, ita ut duobus semper interjectis numeris superiori vel superioribus, vincens ternario eum cui jungendus est aggregetur. Namque unitati, intermissis duobus et tribus, si quatuor jungas, qui tribus ipsam superent unitatem, quinarium pentagonus procreabitur. Post 4 vero si, intermisso quinario et senario, 7 agreges, duodenarium pentagonum procreabis. Namque 1 et 4 et 7 numeri 12 explebunt. Hoc etiam in aliis fiet. Nam si 10, vel 13, vel 16, vel 19, vel 22, vel 25 superioribus cunctis adjunxeris, eodem quo superius modo pentagoni fient, secundum superiorem descriptionem. [1125D]

### CAPUT XV. De hexagonis eorumque generationibus.

Hexagoni autem, qui sex angulis, et heptagoni, qui 7 rursus lateribus continentur, secundum hunc modum eorum laterum augmenta succrescunt. Namque in trianguli numeri natura procreationeque ipsos numeros jungebamus, qui sese in naturali dispositione sequerentur, et se tantum unitate transirent; quadra vero numeri, id est tetragoni procreatio, fiebat ex numeris qui uno intermisso copulabantur, [1126A] cum se binario superarent; pentagoni vero natura fuit ex duobus interpositis relictisque qui se ternario vincerent. Secundum quoque talia augmenta hexagonorum, vel octogonorum, vel 9 laterum figura, vel 10, vel quotlibet aliorum, competenti progressionem conficitur. Ut enim in pentagono, duobus intermissis eos jungebamus qui se ternario superarent, ita nunc in hexagono, tribus intermissis eos jungemus qui se quaternario transeant, et erunt quidem eorum radices et fundamenta, ex quibus junctis omnes hexagoni nascuntur. Et ad eundem ordinem consequentes, atque ab his sexangulorum formae nascuntur. [1126B] Quos ad superiorem modum, scilicet descriptos, in propriis ordinibus pernotabis.

### CAPUT XVI. De heptagonis eorumque generationibus, et communis omnium figurarum inveniendae generationis regula, descriptionisque.

Septem vero angulorum figura est, cum ad eundem ordinem progressionis uno plus quam in sexangulorum figura numero intermisso superiori conjunxeris. Nam si quatuor interpositis, qui sese quinario vincant, aggregaveris, heptagoni continuo figura nascetur, ut hi numeri sint eorum radices, et (ut superius dictum est) fundamenta. [1126C] Qui vero ex his constant hi sunt. Novem vero angulorum secundum eundem ordinem forma procreatur, ita ut secundum aequalem progressionem primi quoque eorum numeri distent. Nam in triangulo qui sunt numeri, quae prima superficiei figura est, uno sese tantum numeri praecedunt, qui scilicet eorum naturam descriptionemque perficiunt. In tetragono vero qui secundus est, duobus sese juncti numeri vincunt, et in pentagono 3, et in hexagono 4, et in heptagono 5, hujusque rei nullus est modus. Hoc autem nos subjectarum formarum [1126D] descriptiones docebunt. [1127A]

**CAPUT XVII.** *Descriptio figuratorum numerorum in ordine.*

Similiter autem licebit et aliarum formarum, quae pluribus angulis continentur, quantitates ascribere. Sed quoniam facilius oculis subjecta retinentur, supradictarum formarum numerositas in subteriore [1127D] descriptione ponatur.

**CAPUT XVIII.** *Qui figurati numeri ex quibus figuratis numeris fiant, atque quod triangulus numerus omnium reliquorum principium sit.*

His igitur ita sese habentibus, quid in hac re sit consequens investigemus. Omnes enim tetragoni qui [1128A] sub triangulis sunt naturali ordinatione dispositi, ex superioribus triangulis procreantur, illorumque collectione quadrati figura componitur. Quatuor enim tetragonus fit ex uno et tribus, id est ex duobus superioribus triangulis. Novem vero, ex tribus et 6, sed utriusque sunt trianguli. At 16 ex 6 et 10, et 25 ex 10 et 15. Idemque in sequenti ordine quadratorum constans atque immutabile reperitur. Pentagonorum vero summae conficiuntur ex uno super se tetragono, et alitrinsecus triangulo constituto. Namque 5 pentagonus, ex quatuor super se posito tetragono, et ex uno qui in triangulorum ordine ponitur, aggregatur. Duodecim vero pentagonus, ex novenario super se quadrato, et tribus secundo triangulo nascitur. Viginti duo vero ex 16 et 6, quadrato scilicet atque triangulo, [1128B] et 35 ex 25 et 10, et in ordinem ad eundem modum intuentem nulla cunctatio contrarietatis impedit. At vero si hexagonos librata examinatione perspicias, ex eisdem triangulis et super se positis pentagonis procreantur. Namque sex hexagonus ex quinario pentagono et uno qui est in triangulorum ordine dispositus nascitur. Nec alia est origo 15 hexagoni, nisi ex duodenario pentagono et ternario triangulo. Quod si 28 rursus hexagonum ex quibus superioribus nascatur addiscas, nullos invenies nisi 22 pentagonum senariumque triangulum. Atque hoc in caeteris. Nec hunc geniturae ordinem heptagonorum procreatio refutabit. Namque ex super se hexagonis, et ex eminus positis triangulis procreantur. Septem enim heptagonus nascitur ex senario hexagono, [1128C] et uno potestate triangulo, 18 vero heptagonus ex 15 hexagono et ternario triangulo conjungatur, et 34 ex 28, scilicet hexagono et senario triangulo, atque hoc in cunctis inoffensum reperire licet. Videsne igitur ut primus omnium triangulus cunctorum summas efficiat, et omnium procreationibus misceatur!

**CAPUT XIX.** *Pertinens ad figuratorum numerorum descriptionem speculatio.*

Hi vero omnes si ad latitudinem fuerint comparati, id est trianguli tetragonis, vel tetragoni pentagonis, vel pentagoni hexagonis, vel hi rursus heptagonis, sine aliqua dubitatione triangulis, sese superabunt. Namque si ternarium triangulum quaternario, [1128D] vel quaternarium tetragonum quinario, vel quinarium pentagonum senario hexagono, vel senarium septenario heptagono compares, primo se triangulo, id est sola transeunt unitate. At vero si senarius contra novenarium, vel hic contra 12, vel hic contra 15, vel 15 contra 18 pro inveniendis differentiis comparentur, secundo se triangulo, id est ternario, superabunt. Decem vero ad 16, et 16 ad 22, et 22 ad 28, et 28 ad 34 si componas, tertio se triangulo vincent, id est senario. Atque hoc rite notabitur in aliis cunctis sequentibus esse perspectum, omnesque se triangulis antecedent. Quare perfecte, ut arbitror, demonstratum est omnium formarum principium elementumque esse triangulum

**CAPUT XX.** *De numeris solidis. [1129A]*

Hinc vero ad figuras solidas facilius via est. Praecognito enim quid in planis numerorum figuris vis ipsa quantitatis naturaliter operetur, ad solidos numeros non erit ulla cunctatio. Sicut enim longitudini numerorum aliud intervallum, id est superficiem, ut latitudo ostenderetur, adjecimus, ita nunc latitudini si quis addat eam quae alias altitudo, alias crassitudo, alias profunditas appellatur, solidum numeri corpus explebit.

**CAPUT XXI.** *De p*

*yramide, quod ea sit solidarum figurarum principium, sicut triangulus planarum, et de speciebus. [1129B]* Videtur autem quemadmodum in planis figuris triangulus numerus primus est, sic in solidis qui vocatur pyramis profunditatis esse principium. Omnium quippe ratarum in numeris figurarum necesse est invenire primordia. Est autem pyramis alias a triangula basi in altitudinem sese erigens, alias a tetragona, alias a pentagona, et secundum sequentium multitudines angulorum ad unum cacuminis verticem sublevata. Posito enim triangulo atque disposito, si per tres angulos singulae rectae lineae stantes ponantur, haeque tres inclinentur ut ad unum medium punctum vertices jungant, fit pyramis. Quae cum a triangula basi profecta sit, tribus triangulis per latera concluditur hoc modo: Sit a, b, c, triangulum, [1129C] si huic igitur triangulo per tres angulos erigantur lineae, et ad unum punctum convertantur, quod est d, ita ut d punctum non sit in plano sed pendens, illae scilicet lineae ad ipsum erectae verticem, et quodammodo cacumen d facient, et erit basis a, b, c, unum triangulum, per latera vero, tria triangula, id est unum triangulum a, d, b, aliud vero b, d, c, tertium vero c, d, a.

**CAPUT XXII. De his pyramidis quae a quadratis vel a caeteris multiangulis figuris proficiscuntur. [1129D]**

Item si a tetragona basi proficiscatur, et ad unum verticem ejus lineae dirigantur, erit pyramis quatuor triangulorum per latera, uno tantum tetragono in basi posito, super quam figura ipsa fundata est, et si a pentagono surgant quinque lineae, quinque rursus [1130A] pyramis triangulis continebitur, et si ab hexagono, sex triangulis nihilominus, et quantoscunque angulos habuerit figura super quam pyramis residet, tot ipsa per latera triangulis continetur, ut in subjectis descriptionibus palam est.

**CAPUT XXIII. Solidorum generatio numerorum. [1130C]**

Dicuntur autem hujusmodi pyramides hoc modo: Prima pyramis de triangulo, secunda pyramis de tetragono, tertia pyramis de pentagono, quarta pyramis de hexagono, quinta pyramis de heptagono. Idem in caeteris constat numeris. Nam quoniam lineares numeros esse diximus qui ab uno profecti in infinitum currebant, ut sunt: His autem ordinatim compositis, et in se invicem cum distantia junctis, superficies nascebantur, ut si unum et duo jungeres, primus triangulus nasceretur, [1130D] id est 3, et cum his adjungeremus tertium, id est ternarium, senarius triangulus rursus occurreret, et post hos, tetragoni, uno intermisso, pentagoni vero duobus, hexagoni tribus, heptagoni, relictis quatuor. nascebantur. Nunc vero ad solidorum corporum procreationem, ipsae nobis superficies naturaliter figuratae provenient, et ad faciendas quidem pyramidas a triangulo ipsi nobis trianguli componendi sunt. Ad procreandas vero pyramidas a tetragono, tetragoni, ad eas vero quae sunt a pentagono, pentagoni copulandi sunt, et illae quae sunt ab hexagono vel heptagono, non nisi hexagonorum vel heptagonorum copulatione nascentur. Primus ergo potestate triangulus, unitas est, eademque etiam ponemus virtute pyramidem; [1131A] secundus vero triangulus est ternarius, quem si cum primo conjunxero, id est cum unitate, quaternaria mihi profunditas pyramidis excrescit. At vero si iis tertium senarium junxero, denaria pyramidis procreabitur altitudo. His si denarium junxero, 20 numerorum pyramis veniet, atque ita in cunctis aliis eadem ratio copulationis est. In hac igitur conjunctione necesse est ut semper qui ultimus sit conjugatorum numerorum, is quasi quodammodo basis sit. Cunctis enim latior invenitur; et [1131B] qui ante ipsum numeri junguntur, minores esse necesse est, usque dum ad unitatem detractio rata perveniat, quae puncti quodammodo et verticis obtineat locum. Namque in 10 pyramide super sex additi sunt 3 atque unus, qui senarium superat ternariam quantitatem, ipsi vero tres unum pluralitate transcendunt, qui unus extremum terminum progressionis offendit. Similis quoque ratio in caeteris prospici potest, si eorum procreationes diligentius volueris perscrutari. Illae vero quae sunt a tetragono pyramides, eadem tetragonorum super se compositione nascuntur. Descriptis enim cunctis tetragonis, id est: si unitatem primam ex hac dispositione praesumam, erit mihi potestate et vi pyramis ipsa unitas, [1131C] nondum etiam opere atque actu. At si huic tetragonum superponam, id est 4, nascetur pyramis quinque numerorum, quae duobus tantum numeris per latera positus continetur. Sin vero his sequentes 9 adjecero, fiet mihi 14 numerorum forma pyramidis, quae per latera tribus unitatibus concludatur. Atque huic si sequentem tetragonum 16 superponam, tricenaria mihi pyramidis forma producitur. In his quoque omnibus pyramidibus tot erunt unitates per latera quantae in se fuerint numerorum aggregatae quantitates. Nam unitas, quae prima pyramis est, unum solum, id est seipsam, gerit in latere. Quinque vero, quae constant ex 1 et 4, duobus per latera designatur, et 14, quae ex tribus numeris compositis fit, ternario numero in latere posito constituitur. Hanc autem [1131D] pyramidum generationem monstrat subjecta descriptio: Et ad eundem modum cunctae a caeteris multiangulis profectae formae, in altioris summae spatia producuntur. Omnis enim multorum angulorum forma, ex sui generis figura unitati superposita, ab uno ingredientibus ad pyramidum constituendas figuras usque in infinita progreditur. Et ex hoc equidem apparere necesse est triangulas formas caeterarum figurarum [1132A] esse principium, quod omnis pyramis a quacunque basi profecta, vel a quadrato, vel a pentagono, vel ab hexagono, vel ab heptagono, vel a quocunque similium, solis triangulis usque ad verticem continetur.

**CAPUT XXIV. De curtis pyramidis.**

Scire autem oportet quae sunt curtae pyramides, vel quae bis curtae, vel quae ter curtae, vel quater, et deinceps secundum numerorum adjectionem. Perfecta enim pyramis est quae, a qualibet basi profecta, usque ad primam vi et potestate pyramidum pervenit unitatem. Sin vero, a qualibet basi profecta, usque ad unitatem altitudo illa non venerit, curta vocabitur. Recteque hujusmodi pyramis tali nuncupatione [1132B] signatur, si usque ad extremitatem punctumque non venerit. Haec autem est, ut si quis 16 tetragono adjiciat 9, atque huic 4, et ab ulterioris sese adjectione unitatis suspendat, pyramis quidem figura est, sed quoniam usque ad cacumen verticis non excrevit, curta vocabitur, et habebit summitatem non jam punctum quod unitas est, sed superficiem, quod est quilibet numerus secundum basis illius angulos porrectus, atque ultimus aggregatus. Nam si tetragona fuerit basis, quadrata diminutione semper ascendit, et si pentagona basis, similiter et si hexagona, illa quoque ultima superficies erit hexagona. Ergo in curta pyramide, tot erit angulorum superficies quot fuerit basis. Si vero illa pyramis non solum ad unitatem extremitatemque non pervenit, sed nec ad [1132C] primum quoque opere et actu multiangulum ejus generis cujus fuerit basis, bis curta vocabitur, ut si, a 16 tetragono proficiscens, usque in 9

terminum ponat, neque excrescat ad 4, et quotcunque tetragoni defuerint, totiens eam curtam esse dicemus. Ut si unitas defuerit primus quadratus, curtam, quam Graeci κόλυρον vocant. Si vero duobus tetragonis, deficit, id est unitate et eo qui sequitur, vocatur bis curta, quam Graeci δικόλυρον appellant. Quod si tribus tetragonis, ter curta dicitur quam Graeci tricolyron nominant, et quotcunque tetragoni fuerint minus, totiens illam pyramidem curtam esse proponimus. Hoc autem non solum a tetragono pyramidis, sed in omnibus ab omni multiangulo progredientibus speculari licet.

**CAPUT XXV. De cubis, vel asseribus, vel laterculis, vel cuneis, vel sphaericis, et parallelipipedis numeris. [1132D]**

Ac de solidis quidem quae pyramidis formam obtinent aequaliter crescentibus, et a propria velut radice multianguli figura progredientibus, dictum est. Est alia rursus quaedam corporum solidorum ordinabilis compositio, eorum qui dicuntur cubi vel asseres, vel laterculi, vel cunei, vel sphaerae, vel parallelipipedi, quae sunt quotiens superficies contra se sunt, et ductae in infinitum nunquam concurrent. Dispositis enim in ordinem tetragonis, [1133A] quoniam hi solam longitudinem latitudinemque sortiti sunt, et altitudine carent, si per latera solam unam multiplicationem recipiant, aequalem provehunt profunditatem. Nam quatuor tetragonus, duos habet in latere, et natus est ex bis duobus. Bis enim duo quatuor faciunt. Hos ergo duos ex ipsius latere si multiples aequaliter, cubi forma nascetur. Nam si bis binos bis facies, octonaria quantitas crescit, et est primus hic cubus. Novem vero tetragonus, quoniam 3 habet in latere, et factus est ex tribus in se multiplicatis, si enim unam lateris multiplicationem adjunxeris, rursus alius cubus aequali laterum formatione crescit. Ter enim tres si tertio duxeris, 27 cubi figura producitur. Et 16, qui est ex 4, si quater augetur, sexaginta quatuor cubus pari laterum dimensione [1133B] crassabitur, et sequentes quidem tetragoni, secundum eundem modum, multiplicatione facta, cubus pari laterum dimensione [1133B] crassabitur, et sequentes quidem tetragoni, secundum eundem modum, multiplicatione facta, provehuntur. Tot autem necesse est unitates cubus habeat in latere, quot habuit primus ille tetragonus ex quo ipse productus est. Nam quoniam 4 tetragonus duos tantum numeros habet in latere, duos quoque habet octonarius cubus, et quoniam novem tetragonus tribus per latus unitatibus figurabatur, solo ternario 27 cubi latus urgetur. Et quoniam 16 tetragonus quatuor unitatum latus habebat, totidem 64 cubus in latere gestabit unitates. Quare etiam vi et potestate cubi, quod est unitas, unus erit in latere. Omnis enim tetragonus una quidem superficies est quatuor angulorum, totidemque laterum. Omnis autem cubus qui ex tetragonorum superficie in profunditatem [1133C] corporis crevit, per tetragoni scilicet latus multiplicatus, habebit quidem superficies 6, quarum singula planitudo tetragono illi priori aequalis est. Latera vero 12, quorum unumquodque singulis his quae superioris fuere tetragoni aequum est, et, ut superius demonstravimus, tot unitatum est. Angulos vero 8, quorum singulus sub tribus huiusmodi continetur, quales priores fuere tetragoni unde cubus ipse productus est. Ergo ex naturaliter profuso numero, qui in subjecta forma descripti sunt, subjecti tetragoni nascuntur, et ex his tetragonis qui subnotati sunt cubi provehuntur. Et quoniam omnis cubus ab aequilateris quadratis profectus, aequus ipse omnibus partibus est, nam et latitudini longitudo, et his duobus compar est altitudo, et secundum sex partes, id est sursum, deorsum, dextera, sinistra, ante, post, sibi aequalem esse necesse est: huic oppositum contrariumque esse oportebit, qui neque longitudinem latitudini, neque haec duo profunditati gerat aequalia, sed cunctis inaequalibus, quamvis solida figura sit, ab aequalitate cubi longissime distare videatur. Hi autem sunt, ut si quis faciat [1134A] bis tres quater, vel ter quater quinquies, et alia huiusmodi, quae per inaequales spatiorum gradus inaequaliter provehuntur. Haec autem forma Graeco nomine scalenos vocatur, nos vero gradatam possumus dicere, quod a minore modo velut gradibus crescat ad majus. Vocant autem eandem figuram Graeci quidam sperniscon, nos autem cuneum possumus dicere. Etenim quos ad quamlibet illam rem constringendam cuneos formant, neque latitudinis, neque longitudinis, neque altitudinis, habita ratione, quantum commodum fuerit, tantum vel altitudini minuitur, vel crassitudini profunditatis augetur. Atque ideo hos plerumque necesse est omnibus partibus inaequalibus inveniri. Quidam vero hos bomiscos vocant, id est quasdam arulas quae in Ionica Graeciae [1134B] regione (ut ait Nicomachus) hoc modo formatae fuerunt, ut neque altitudo latitudini, neque haec longitudini convenirent. Vocatur autem aliis quibusdam nominibus, quae nunc prosequi supervacuum iudicamus. Igitur cubi aequalibus spatiis se porrigentibus et huius formae, quam diximus, gradata distributione disposita, medietates sunt, quae neque cunctis partibus aequales sunt, neque omnibus inaequales, quos Graeci parallelepipedos vocant. Latini nomen hoc ita uniformiter compositum habere non possunt. Ut tamen idem pluribus dictum sit, ea namque hoc nomine vocatur figura, quae alternatim positis latitudinibus continetur.

**CAPUT XXVI. De parte altera longioribus numeris, antelongioribus, eorumque generationibus. 1134C]**

Huiusmodi vero formas quales sunt quae vocantur a Graecis ητερομίκεις, nos dicere possumus parte altera longiores, quarum figurarum numerus quoque hoc modo diffiniendus est. Parte altera longior est numerus, quem si in latitudinem describas, et ipse quidem 4 provenit laterum et 4 angulorum, sed non cunctis aequalibus, sed semper minus uno. Namque nec latera lateribus, cuncta cunctis aequa sunt, nec longitudini latitudo, sed (ut dictum est) cum hinc altera pars major fuerit, uno tantum minorem praecedat ac superat. Si enim numerum



naturalem disponas in ordinem, et secundum per primum multiples, talis nascetur numerus; vel si secundum per [1134D] tertium, vel si tertium per quartum, vel si quartum per quintum, omnesque bi unitate tantum addita multiplicentur, nascentur parte altera longiores. Disponatur enim numerus naturalis. Et tunc quidem hactenus. Si quis igitur faciat unum bis, faciet duo. Et rursus bis tres faciet 6, ter quater faciet 12, quater 5 faciet 20, et hoc modo ad eundem ordinem. Quicumque igitur ita facti sunt, procreabuntur parte altera longiores, ut subjecta descriptio docet. In qua, ex quibus numeris multiplicati nascuntur parte altera longiores, supra ascripti sunt. Qui vero nascantur, subterius subnotati. [1135A]

**CAPUT XXVII.** *De antelongioribus numeris, et de vocabulo numeri parte, altera longioris.*

Ergo si ab unitate tantum discrepent qui multiplicantur, descripti superius numeri protendentur. Si vero aliquo numero, ut ter septem, vel ter quinque, vel aliquo modo alio, et non eorum latera sola discrepent [1135B] unitate, non vocabitur hic numerus parte altera longior, sed antelongior. Alterum enim apud Pythagoram vel sapientiae ejus haeredes, nulli alii nisi tantum binario ascribebatur. Hunc alteritatis principium esse dicebant. Eandem autem naturam, et semper sibi similem consentientemque, nullam aliam nisi primaevam ingeneratamque unitatem. Binarius autem numerus, primus est unitati dissimilis, idcirco quod primus ab unitate disjungitur, atque ideo alteritatis cujusdam principium fuit, quod ab illa prima et semper eadem substantia, sola tantum est unitate dissimilis. Merito ergo dicentur hi numeri parte altera longiores, quod eorum latera unius tantum sese adjecta numerositate praecedunt. Argumentum est autem alteritatem in binario numero juste [1135C] constitui, quod non dicitur alterum nisi e duobus ab his in quos bene loquendi ratio non negligitur. Amplius quod impar numerus, sola unitate perfici monstratus est, par vero sola dualitate, id est solo binario numero. Nam cujuscunque medietas est unus, ille impar est, cujus vero 2, hic paritate recepta, in gemina aequa disjungitur. Quare dicendum est imparem numerum, ejusdem atque in sua se natura tenentis, immutabilisque substantiae esse participem, idcirco quod ab unitate formetur, parem vero, alterius plenum esse naturae, idcirco quod a dualitate completur

**CAPUT XXVIII.** *Quod ex imparibus quadrati, ex paribus parte altera longiores fiant.*

At vero positus in ordinem ab unitate imparibus, [1135D] et sub his a dualitate paribus descriptis, coacervatio imparium tetragonos facit, coacervatio parium superiores efficit parte altera longiores. Quare, quoniam tetragonorum haec natura est, ut et ab imparibus procreentur, qui sunt unitatis participes, id est ejusdem immutabilisque substantiae, cunctisque partibus suis aequales sint, quod et anguli angulis, et latera lateribus, et longitudini compar est latitudo, dicendum est hujusmodi numeros ejusdem naturae atque immutabilis substantiae participes. Illos vero numeros, quos parte altera longiores paritas creat, alterius dicemus esse substantiae. Nam quemadmodum unus a duobus uno tantum alter est, sic horum latera a se tantum uno sunt altera, et una tantum differunt [1136A] unitate. Quare disponantur in ordinem omnes ab uno impares, et sub his omnes a binario numero pares. Est ergo princeps imparis ordinis, unitas, quae ipsa quidem effectrix et quodammodo forma quaedam est imparitatis. Quae intantum ejusdem nec mutabilis substantiae est, ut cum vel seipsam multiplicaverit, vel in planitudine, vel in profunditate, vel si alium quemlibet numerum per seipsam multiplicet, a prioris quantitatis forma non discrepet. Namque si unum semel facies, vel si semel unum semel, vel si duo semel, vel si tres semel, vel si quatuor semel, vel si quemlibet alium numerum multiplicet, a quantitate [1136B] sua is quem multiplicat numerus non recedit, quod circa alium numerum non potest inveniri. Paris vero ordinis, binarius numerus princeps est, quae dualitas cum in eodem ordine paritatis sit, tum principium totius est alteritatis. Namque si sese ipsam multiplicet, vel per latitudinem, vel etiam profunditatem, vel si quem numerum in suam conglobet quantitatem, continuo alter exoritur. Nam bis duo, vel bis duo bis, si facias, vel bis 3, vel bis 4, vel bis 5, vel quemlibet alium multiplicet, quisquis hinc nascitur, alius quam primo fuerat, invenitur. Nascuntur autem ex superiore descriptione, et ex primo ordine omnes tetragoni hoc modo: Unum enim si respexeris, primus potestate tetragonus est. Sin vero unum tribus coacervaveris, 4 tetragonus exoritur. Huic si quinarium [1136C] jungam, novenarius rursus occurrit. Huic si copules 7, 16 quadrati forma se suggerit. Idemque si in caeteris facias, omnes competenter quadratos videas procreari. At vero ex secundo paritatis ordine, iidem cuncti parte altera longiores fiunt. Namque si duos primos respexero, hujusmodi mihi numerus occurrit qui fit ex bis uno. Cum vero duobus sequentes 4 junxero, parte altera longior rursus erit senarius, scilicet qui fit ex bis tribus. Cui si sequentem aggregavero, nascetur mihi duodenaria forma, quae fit ex quater tribus. Quod si continuatim quis faciat, cunctos hujusmodi numeros in competenti ordine procreatos videbit. Quam descriptionem scilicet inferior forma demonstrat: [1136D]

**CAPUT XXIX.** *De generatione laterculorum, eorumque diffinitione.*

Quos autem superius laterculos diximus, quae sunt et ipsae quidem solidae figurae, hoc modo fiunt. Quotiens aequalibus spatiis in longitudinem latitudinemque porrectis, minor his additur altitudo. Ut sunt [1137A]

hujusmodi 3 ter bis, qui sunt 18, vel 4 quater bis, vel alio quolibet modo, ut his in longitudinem, latitudinemque aequis, minor altitudo ducatur. Hi definiuntur hoc modo: Laterculi sunt, qui fiunt ex aequalibus aequaliter in minus. Asseres vero et ipsae quidem figurae sunt solidae, sed hoc modo ut ex aequalibus aequaliter ducantur in majus. Nam si aequa fuerit latitudo longitudini, et major sit altitudo, illae figurae a nobis asseres, a Graecis clocides nominantur, ut si quis hoc modo faciat 4 quater novies, qui inde procreantur, asseres nominati sunt. Sphenisci vero, quos cuneolos superius appellavimus, hi sunt qui, ex inaequalibus inaequaliter ducti, per inaequalia crevere; cubi vero, qui ex aequalibus aequaliter per aequalia producti sunt.

**CAPUT XXX. De circularibus vel sphaericis numeris. [1137B]**

Ipsorum vero cuborum quancunq̄ fuerint ita ducti, ut a quo numero cubicae quantitatis latus coeperit, in eundem altitudinis extremitas terminetur, numerus ille cyclicus vel sphaericus appellatur, ut sunt multiplicationes quae a quinario vel senario proficiscuntur. Nam quinquies quinque, qui fit 25, ab 5 progressus, in eosdem 5 desinit. Et si hos rursus quinquies ducas, in eosdem 5 eorum terminus veniet. Quinquies enim 25 fiunt 125, et si hos rursus quinquies ducas, in quinarium numerum extremitas terminabitur. Atque hoc usque in infinitum idem semper evenit. Quod in senario quoque convenit considerari. Hi autem numeri idcirco cyclici vel sphaerici [1137C] vocantur, quod sicut sphaera vel circulus, in proprii semper principii reversione formantur. Est enim circulus posito quodam puncto et alio eminus defixo, illius puncti qui eminus fixus est aequaliter distans a primo puncto circumductio, et ad eundem locum reversio unde moveri coeperat. Sphaera vero est semicirculi, manente diametro, circumductio et ad eundem locum reversio unde prius coeperat ferri. Unitas quoque, virtute et potestate, ipsa quoque circulus vel sphaera est, quoties enim punctum in se multiplicaveris, in seipsum unde coeperat terminatur. Si enim faciat semel unum, unus redit, et si hoc rursus semel, idem est. Igitur si una fuerit multiplicatio, [1137D] effectrix semper est profunditatis. Ex 5 igitur et 6, paucas hujusmodi formas subscripsimus:

**CAPUT XXXI. De natura rerum quae dicitur ejusdem naturae, et de ea quae dicitur alterius naturae, et qui numeri cui naturae conjuncti sunt.**

Ac de solidis quidem figuris, haec ad praesens dicta sufficiant. Qui autem de natura rerum propinquis [1138A] investigantes rationibus, quique in matheseos disputatione versati, quid in quaque re esset proprium, subtilissime peritissimeque ediderunt, hi rerum omnium naturas in gemina dividentes, hac speculatione distribuunt. Dicunt enim omnes omnium rerum substantias constare ex ea quae propriae suaeque semper habitudinis est, nec ullo modo permutatur, et ea scilicet natura quae variabilis motus est sortita substantiam. Et illam primo immutabilem naturam, unius ejusdemque substantiae vocant, hanc vero alterius, scilicet quod a prima illa immobili discedens prima sit altera. Quod nimirum ad unitatem pertinet, et ad dualitatem, qui numerus primus ab uno discedens, alter factus est. Et quoniam cuncti secundum unitatis speciem naturamque impares numeri formati sunt, [1138B] quoque ex his coacervatis tetragoni fiunt, duplici modo ejusdem substantiae participes esse dicuntur, quod vel ab aequalitate formantur tetragoni, vel coacervatis in unum numeris imparibus procreantur. Illi vero qui sunt pares, quoniam binarii numeri formae sunt, quique ex his coacervati collectique in unam congeriem, parte altera longiores numeri nascuntur, hi secundum ipsius binarii numeri naturam, ab ejusdem substantiae natura discessisse dicuntur, putanturque alterius naturae esse participes, idcirco quoniam cum latera tetragonorum ab aequalitate progressa, in aequalitatem propriae latitudinis ambitum tendant, hi adjecto uno ab aequalitate laterum discesserunt, atque ideo dissimilibus lateribus et quodammodo alteris a se conjunguntur. Quare nobis notum [1138C] est, quod ex his ea quae sunt in hoc mundo, conjuncta sunt. Aut enim propriae, immutabilis, ejusdemque substantiae est, quod Deus, vel anima, vel mens est, vel quodcunque propriae naturae incorporalitate beatur, aut mutabilis, variabilisque naturae, quod corporibus indubitanter videmus accidere. Unde nunc nobis monstrandum est, hac gemina numerorum natura, quadratorum scilicet et parte altera longiorum, cunctas numeri species cunctasque habitudines, vel relatae ad aliquid quantitatis, ut multiplicium vel superparticularium et caeterorum, vel ad seipsam consideratae, ut formarum quas dudum in superiore disputatione descripsimus informari, ut quemadmodum mundus ex immutabili, mutabilique substantia, sic omnis numerus ex tetragonis, qui immutabilitate [1138D] perficiuntur, et ex parte altera longioribus, qui mutabilitate participant, probetur esse conjunctus. Et primo quidem distribuendum est, qui sunt hi quos promecas vocant, id est anteriore parte longiores, vel qui quos ἡτερομικεῖς, id est parte altera longiores. Est enim parte altera longior numerus quicunque unitate tantum lateri crescit adjecta, ut sunt 6 scilicet bis 3, vel 12 tres quater, et consimiles. Anteriore vero parte longior est qui sub duobus numeris hujusmodi continetur, quorum latera non possidet unitatis differentia, sed aliorum quorumcunque numerorum, ut ter 5, vel ter 6, vel quater 7. Quodammodo enim longitudine in prolixiorem modum porrecta, merito anteriore parte longior dicitur. Cur autem parte altera longiores numeri [1139A] dicantur, supra jam dictum est. Quadrati vero, quoniam aequam latitudinem longitudini gerunt, propriae longitudinis vel ejusdem latitudinis aptissime vocabuntur, ut bis 2, ter 3, quater 4, et

caeteri. Parte altera vero longiores, quod non eadem longitudine tendantur, alterius quodammodo longitudinis, et parte altera longiores vocantur

**CAPUT XXXII.** *Quod omnia ex ejusdem natura et alterius natura consistunt, idque in numeris primum videri.*

Omne autem quidquid in propria natura substantiaque est immobile, terminatum definitumque est, quippe quod nulla variatione mutetur, nunquam esse desinat, nunquam possit esse quod non fuit. At haec, unitas sola est, et quae unitate formatur, comprehensibilis [1139B] et determinatae et ejusdem substantiae esse dicuntur. Ea vero sunt, quae vel ab aequalibus crescunt velut quadrati, vel quos ipsa unitas format, id est, impares. At vero binarius et cuncti parte altera longiores, qui a finita substantia discesserunt, variabilis infinitaeque substantiae nominantur. Constat ergo numerus omnis ex his quae longe disjuncta sunt atque contraria, ex imparibus scilicet et paribus. Hic enim stabilitas, illic instabilis variatio; hic immobilis substantiae robur, illic mobilis permutatio; hic definita soliditas, hic infinita congeries multitudinis. Quae, scilicet, cum sint contraria, in unam tamen quodammodo amicitiam cognationemque miscentur, et illius unitatis informatione atque regimento, unum numeri corpus efficiunt. Non ergo inutiliter [1139C] neque improvide, qui de hoc mundo, deque hac communi rerum natura ratiocinabantur, hanc primam totius modi substantiae divisionem fecerunt. Et Plato quidem in Timaeo ejusdem naturae, et alterius nominat, quidquid in mundo est, atque aliud in sua natura permanere putat individuum inconjunctumque et rerum omnium primum, alterum divisibile et nunquam in proprii statu ordinis permanens. Phyloaus vero: Necesse est, inquit, omnia quae sunt vel infinita vel finita esse. Demonstrare scilicet volens omnia quaecumque sunt ex his duobus consistere, aut ex infinita, scilicet esse, aut ex finita, ad numeri sine dubio similitudinem. Hic enim ex uno et duobus, et impari atque pari conjungitur. Quae manifesta sunt, aequalitatis atque inaequalitatis, ejusdem [1139D] atque alterius, definitae atque indefinitae esse substantiae. Quod videlicet non sine causa dictum est, omnia quae ex contrariis consistent, harmonia quadam conjungi atque componi. Est enim harmonia, plurimorum adunatio, et dissentientium consensio.

**CAPUT XXXIII.** *Ex ejusdem atque alterius numeri natura, qui sunt quadratus et parte altera longior, omnes proportionum habitudines constare.*

Disponantur ergo in ordinem non jam pares atque impares, ex quibus quadrati vel parte altera longiores fiunt, sed hi ipsi qui illis coacervatis in unumque redactis, et quadrati et parte altera longiores prodeunt. Ita enim videbimus istorum quemdam consensum, [1140A] et ad caeteras numeri partes procreandas amicitiam, ut non sine causa hoc in omnibus rebus ab numeri specie natura rerum sumpsisse videatur. Sint igitur duo versus tetragonorum ab unitate omnium, et a binario numero parte altera longiorum. Horum igitur si primum compares primo, dupli quantitas invenitur, quae est prima multiplicatis species. Si vero secundum secundo, hemioliae quantitates habitudo producitur. Si tertium tertio, sesquitertia proportio procreantur. Si quartum quarto, sesquiquarta, et si quintum quinto, sesquiquinta. Et hinc superparticularium normam in quodvis longissimum spatium progrediens integram inoffensamque reperies. [1140B]

Ita ut in prima dupli proportionem unitatis solius sit differentia. Duo namque ab uno sola semper discrepant unitate. In sesquialtera vero duorum est differentia, in sesquitertia trium, in sesquiquarta 4, et deinceps, secundum superparticulares formas numerorum, quod ad differentias attinet, uno tantum crescit adjecto numerum explicans naturalem. [1140C] Sin vero secundum tetragonum, primo parte altera longiori compares, et tertium secundo, et quartum tertio, et quintum quarto, easdem rursus proportionem effici pernotabis quas in superiore forma descripsimus. Sed hic differentiae ab unitate non inchoant, sed a binario numero in infinitum per eosdem calculos progrediuntur. Eritque secundus primi duplus, tertius secundi sesquialter, quartus tertii sesquitercius, secundum eandem convenientiam quae superius demonstrata est. [1140D] Rursus quadrati invicem imparibus differunt, parte altera longiores, paribus. [1141A] At vero si inter primum et secundum tetragonum, primum parte altera longiorem ponimus, ad utrosque eos una proportione conjungitur. In utrisque enim proportionibus dupli multiplicitas invenitur. Sin vero inter secundum tertiumque tetragonum, secundum parte altera longiorem ponas, sesquialterae comparationis ad utrosque forma componitur. Et si inter tertium et quartum tetragonum, tertium parte altera longiorem constituas, sesquitertia species nascetur, et idem si in cunctis feceris, cunctas super particulares [1141B] species invenire miraberis. Et ad eundem modum in caeteris convenit intueri. Rursus si ponantur duo tetragoni ex superius descriptis, id est primus et secundus, et in unum colligantur, et medius eorum parte altera longior bis [1141C] multiplicetur, tetragonus fit. Namque unus et 4, si jungantur, 5 faciunt, eorum binarius parte altera longior si bis ducatur, quatuor faciunt, qui juncti, 9 sine ulla dubitatione conficiunt, qui est numerus quadratus. Et ad eundem modum in aliis hoc modo dispositis numeris, quos supra descripsimus, idem constat intelligi. Si vero convertas, et inter duos primum et secundum parte altera longiores secundum tetragonum ponas, qui in ordine quidem secundus est, sed actu et opere primus, ex duobus parte altera longioribus congregatis, et bis multiplicato medio tetragono, rursus tetragonus conficitur. Namque inter 6 et binarium numerum, qui sunt primus et secundus parte altera longiores, si ponatur quaternarius ordine secundus, primus actu tetragonus, [1141D] et conjungantur duo et sex, faciunt 8. Tum si bis ducantur medii,

quatuor faciunt rursus octonarium, qui cum superioribus juncti, sedecim tetragonum pandunt. [1142A] Illud quoque non oportet minore admiratione suscipere, quod secundum proprias naturas, ubi altrinsecus duo tetragoni stant, et unus parte altera longior in medio ponitur, tetragonus qui nascitur, ille semper ab impari procreatur. Nam ex superioribus, uno et 4 et bis multiplicato binario, factus est novenarius tetragonus, qui scilicet a tribus procreatur. Ter enim [1142B] tres 9 faciunt, qui ternarius impar est numerus. Et sequens qui ex quatuor et 9, et bis multiplicato senario conjunctus, est 25 tetragonus, et ipse ex impari quinario nascitur continenti post ternarium. Quinquies enim quinque 25 procedunt, et quinario post ternarium, impar est numerus. Et in sequenti quoquo eadem ratio est. Nam qui ex 9 et 16 et bis ducto 12 quadratus 49 producitur, ille a septenario impari fit post quinarium continenti. Septies enim septem 49 creant. At vero ubi duo altrinsecus parte altera longiores unum medium tetragonum claudunt, omnes ex his qui fiunt tetragoni, a paribus producuntur. Nam qui ex duobus et 6 parte altera longioribus et quaternario bis multiplicato, 16 tetragonus factus est, ille a quaternario numero, id est [1142C] pari, producitur. Quater enim quatuor 16 sunt. Et in sequenti quoque ordine ubi ex senario et duodecim, et bis in suam summam ducto novenario, 36 fiunt, ex continenti pari senario copulantur. Sex enim sexies 36 restituunt. Nec minus in eandem rationem cadet, ex 12 et 20 et bis 16 factus 64 tetragonus. Hic enim ex octonario continenti post senarium nascitur. Octies enim octo 64 tetragonum jungunt. Et in aliis quoque secundum eundem modum si idem facias, rationis ordo non discrepat.

**CAPUT XXXIV.** *Quod ex quadratis ex parte altera longioribus, omnis formarum ratio consistat.*

Illud vero, quod ex his duobus tota omnium formarum videtur orta prolatio non minore consideratione [1142D] notandum est. Namque trianguli qui cunctas alias formas, sicut superius docuimus, collecti producunt, his junctis velut ex quibusdam elementis oriuntur. Namque ex uno primo tetragono, et binario primo parte altera longiore, ternarius triangulus copulatur. Et ex binario vel quaternario, id est ex secundo tetragono senarius triangulus procreatur. Ex quaternario quoque et senario, denarius triangulus nascitur. Et ad eundem ordinem, cuncta triangulorum ratio constabit. Disponantur enim alternatim inter se tetragoni et parte altera longiores, qui ut melius pernotarentur, prius in duobus eos versibus disposuimus, post autem eosdem permiscuimus, et qui exinde trianguli nascerentur ascripsimus. [1143A]

**CAPUT XXXV.** *Quemadmodum quadrati ex parte altera longioribus, vel parte altera longiores ex quadratis fiant.*

Omnis vero tetragonus si ei proprium latus addatur, vel eodem rursus dematur, parte altera longior fit. Namque 4 tetragono si quis duo jungat, vel duo [1143B] detrahat, 6 addendo perficiet et duo detrahendo, at uterque figuram continet parte altera longiorem, quae, scilicet magna, est alteritatis vis. Omnis enim infinita et indeterminata potentia, ab aequalitatis natura, et a suis se finibus continenti substantia discedens, aut in majus exuberat, aut in minora decrescit

**CAPUT XXXVI.** *Quod principaliter ejusdem quidem sit substantiae unitas, secundo vero loco impares numeri, tertio quadrati, et quod principaliter dualitas alterius sit substantiae, secundo vero loco pares numeri, tertio parte altera longiores.*

Constat igitur primo quidem loco, unitatem propriae immutabilisque substantiae ejusdemque naturae, dualitatem vero primam, alteritatis mutationisque esse principium. Secundo vero loco, omnes impares [1143C] numeros propter unitatis cognationem, ejusdem atque immutabilis substantiae esse participes, pares vero ob binarii numeri consortium, alteritatibus esse permixtos. Tetragonos quoque ad eundem modum considerari manifestum est. Nam quod eorum compositio et conjunctio ex imparibus fit, immutabili eos naturae pronuntiabo conjunctos. Quod vero parte altera longiores ex copulatione parium, procreantur, nunquam ab alteritatis varietate separantur.

**CAPUT XXXVII.** *Alternatim positis quadratis, et parte altera longioribus, qui sit eorum consensus, in differentia et in proportionem.*

Illud igitur perspicendum est, quod si idem tetragoni et parte altera longiores disponantur, ita ut [1143D] alternatim sibi permixti sint, tanta in his est conjunctio, ut alias sibi in eisdem proportionibus communicent, discrepent autem differentiis. Alias vero differentiis, pares sint, proportionibus distent. Disponantur enim in ordinem iidem illi superiores tetragoni, et parte altera longiores ab uno. Ergo in superiore formula hoc maxime intuendum est. Namque inter unum, qui est tetragonus, et 2, dupla proportio est, inter 2 et 4 dupla. Hic ergo tetragonus, cum parte altera longiore, atque hic cum sequente tetragono, eadem proportione junguntur, differentiis vero non iisdem. Namque duorum atque unius sola unitas differentia est, sed iidem duo a [1144A] quaternario solo binario relinquuntur. Rursus, si 2 ad 4 speculeris, dupla est proportio: si quatuor ad sex, habitudinem sesquialteram recognosces. Hic ergo in proportionibus discrepant, in differentiis pares sunt.

Namque et quatuor a duobus, et 6 a quatuor, eodem binario distant. In sequentibus etiam eodem modo sicut in primis fuit, ratio constat. Nam eadem proportio est differentiis non eisdem. Nam 4 ad 6 et 6 ad 9, sesquialtera proportione junguntur, 6 autem quaternarium duobus, 9 vero senarium tribus praetereunt. In sequentibus etiam eadem ratio speculabitur, et semper alternatim, nunc quidem eaedem proportiones, aliae differentiae sunt, nunc autem, ordine permutato, iisdem differentiis aliae proportiones. Semperque in quibus differunt, secundum naturalis [1144B] numeri ordines tetragoni et parte altera longiores sese superabunt, tantum quod geminatis summulis naturalis numeri fit progressio. Quod mirum videri non debet, nos enim ipsas summas tetragonorum et parte altera longiorum geminamus ad primas secundasque proportiones. [1144C] Eaedem quoque differentiae, mirabilem in modum a toto per sequentes partes, et per easdem unitates quibus superius creverunt, progrediuntur. Namque inter unum et duo tantum unitas intercedit, quae unitati cui aequalis est totum est, binarii vero, medietas. Eodem modo inter 2 et 4 tantum duo sunt, qui binarii totum sunt, quaternarii medietas. Inter quaternarium vero et senarium iidem duo sunt, ad quaternarium medietas, ad senarium pars tertia. Tres vero qui sequuntur, qui inter 6 et 9 constituti sunt medii, sunt quidem senarii dimidium, pars vero tertia nove narii. Et rursus ternarius, qui novenarii tertia pars est, [1144D] duodenarii quarta est, et ad eundem modum usque in finem descriptionis, geminatis hujusmodi partibus, sicut ipsa quoque summarum comparatio geminata est, aequas partium progressionem aspiciet

### **CAPUT XXXVIII.** *Probatio, quadratos ejusdem esse naturae.*

Illud autem apertissimum signum est, omnes tetragonos imparibus esse cognatos, quod in omni dispositione ab uno, vel in duplicibus, vel in triplicibus talis naturae ordo conseritur, ut nunquam nisi secundum imparem locum tetragonus inveniatur. Disponamus enim in ordinem numeros, primo quidem duplos, deinde triplos. [1145A] Si igitur in utrisque versibus primos aspicias, singulos quos invenis, quoniam tetragoni sunt, in impare loco sunt constituti, quoniam primi sunt. Si vero tertium locum repexeris, 4 et 9 notabis, quorum hic a duobus proficiscitur, illum ternarius creat, qui sunt loco impari constituti. Quintum deinde si videas locum, 16 et 81 respicies, sed unus a quaternario nascitur, alterum novenarius creat. Et si nonum locum rursus aspicias, tetragonos pernotabis 256, 6561, quorum superior fit a 16, inferior vero ab 81. Idem, si in infinitum facere libeat, indiscrepanter incurrit.

### **CAPUT XXXIX.** *Cubos ejusdem participare substantiae quod ab imparibus nascantur. [1145B]*

Ipsi vero cubi, qui quanquam tribus intervallis sublatis sunt, tamen propter aequalem multiplicationem participant immutabilis substantiae, ejusdemque naturae sunt socii, non aliorum quam imparium coacervatione produntur, nunquam vero parium. Nam si omnes ab unitate impares disponantur, juncti figuras cubicas explicabunt. In his igitur qui primus est potestate et virtute primum cubum faciet. Juncti vero duo qui sequuntur, ternarius scilicet et quinarius, secundum efficiunt cubum, qui est octonarius. Juncti autem 3 qui sequuntur, septenarius novenariusque et 11 cubum faciunt, [1145C] qui 27 numero continetur, qui est tertius. Et sequentes quatuor, quartum, et qui sequuntur 5, quintum, et ad eundem modum quotus quisque cubus efficitur, tot conjunctione impares apponuntur. Hoc autem diligentius subjecta descriptio docet:

### **CAPUT XL.** *De proportionalitatibus.*

Et de his quidem sufficienter dictum est. Nunc res [1145D] admonet, quaedam de proportionibus disputantes, quae nobis vel ad musicas speculationes, vel ad astronomicas subtilitates, vel ad geometricae considerationis vim, vel etiam ad veterum lectionum intelligentiam prodesse possint, arithmetica introductione commodissime terminare. Est igitur proportionalitas, duarum vel trium vel quotlibet proportionum, assumptio ad unum atque collectio. Ut autem communiter definiamus: Proportionalitas est duarum vel plurium proportionum similis habitudo, etiamsi non eisdem quantitibus et differentiis constitutae sint. Differentia vero est, inter numeros quantitas. Proportio est duorum terminorum ad se invicem quaedam habitudo, et quasi quodammodo continentia. Quorum compositio [1146A] quod efficit, proportionale est. Ex junctis enim proportionibus proportionalitas fit. In tribus autem terminis minima proportionalitas invenitur. Fit etiam in pluribus, sed longior, ut binarius ad unum, quoniam duo sunt termini, duplam obtinet proportionem, sin vero quatuor contra 2 compares, et hic quoque dupla proportio est, quos tres terminos si continue consideres, ex duabus proportionibus fit proportionalitas. Et est proportionalitas, unum ad duo, et duo ad quatuor. Est enim proportionalitas, ut dictum est, collectio proportionum in unumque redactio. Fit etiam et in longioribus. Nam si quatuor illis octo velis adjungere, et his 16, et his 32, et deinceps duplos qui sequuntur, fit in omnibus dupla proportionalitas ex proportionibus duplis. Igitur quoties unus [1146B] atque idem terminus, ita duobus circum se terminis communicat, ut ad unum dux sit, ad alium comes, haec proportionalitas continua vocatur, ut unus, duo, quatuor. Est enim aequalitas in his proportionis, et quemadmodum sunt 4 ad 2, sic sunt duo ad unum. Et rursus, quemadmodum unus ad duo, sic duo ad quatuor. Et secundum quantitatem quoque numeri, eodem modo est.

Quantum enim tres superant binarium, tantum binarius unitatem, et quantum unus a duobus minor est, tantum binarius a ternario superatur. Sin vero alius ad unum refertur terminus, alius vero ad alium, necesse est habitudinem disjunctam vocari. Ut ad aequalitatem quidem proportionis sunt, 1, 2, 4, 8; sic enim sunt quemadmodum duo ad unum, si octo ad quatuor, et conversim, [1146C] quemadmodum unus ad duo, sic quatuor ad octo. Et permutatim, quemadmodum quatuor ad unum, sic octo ad binarium. Secundum quantitatem vero numeri, ut sunt 1, 2, 3, 4, quantum enim unus a duobus vincitur, tantum ternarius a quaternario superatur. Et quantum duo unum vincunt, tanto ternarium quaternarius transit. Permixtim etiam, quanto unus tribus minor est, tanto binarius quaternario, vel quanto ternarius unitatem superat tanto binarium transgreditur quaternarius.

**CAPUT XLI.** *Quae apud antiquos proportionalitas fuerit et quas posterii addiderint.*

Confessae quidem et apud antiquiores notae, quaeque ad Pythagorae vel Platonis vel Aristotelis scientiam [1146D] pervenerunt, hae tres medietates sunt arithmetica, geometrica, harmonica. Post quas proportionum habitudines, tres aliae sunt quae sine nomine quidem feruntur. Vocantur autem quarta, quinta, vel sexta, quae superius dictis oppositae sunt. At vero posterii propter denarii numeri perfectionem, quod erat Pythagorae complacitus, medietates alias quatuor addiderunt, ut in his proportionalitatibus, denariae quantitatis corpus efficerent. Secundum quem numerum et priores quinque habitudines comparationesque descriptae sunt, ubi quinque majoribus proportionibus, quos vocavimus duces minores aptavimus alios terminos quos comites diximus. Inde etiam in Aristotelica atque Archytae prius 10, praedicamentorum [1147A] descriptione, Pythagoricum denarium manifestum est inveniri. Quandoquidem et Plato studiosissimus Pythagorae secundum eam disputationem dividit, et Archytas Pythagoricus ante Aristotelem (licet quibusdam sit ambiguum) decem haec praedicamenta constituit. Inde etiam 10 membrorum particulae, inde alia permulta quae omnia persequi non est necesse.

**CAPUT XLII.** *Quod primum de ea quae vocatur arithmetica proportionalitate dicendum est.*

Nunc vero de proportionalitatibus, deque medietatibus dicendum est. Et primum quidem de ea medietate tractabimus, quae secundum quantitatis aequalitatem, neglecta proportionis parilitate, constitutorum terminorum habitudines servat. In his autem [1147B] quantitativis medietas ista versatur, inque his speculanda est, in quibus a seipsis termini differunt. Quid autem esset differentia terminorum superius diffinitum est. Hanc autem esse arithmetica medietatem, numerorum ipsa ratio declarabit, quoniam ejus proportio in numeri quantitate consistit. Quae igitur causa est, hujusmodi terminorum habitudinem, id est arithmetica, cunctis aliis proportionalitatibus antepone? Primum quod hanc nobis in principio ipsa numerorum natura, et vis naturalis quantitatis opponit. Hujusmodi enim proportionibus quaeque ad terminorum differentias pertinent, ut paulo post demonstrabitur, in naturalis primum numeri dispositione cognoscimus. Deinde, quod superiore libro disputantibus nobis apparuit, arithmetica vim geometrica [1147C] atque musica esse antiquiorem, et quod illata, has simul inferret, sublata vero perimeret. Quare ordine disputatio progreditur, si ab ea prius inchoandum sit medietate, quae in numeri differentia, non in proportionis speculatione versatur.

**CAPUT XLIII.** *De arithmetica medietate ejusque proprietatibus.*

Arithmetica medietatem vocamus, quoties vel tribus vel quotlibet terminis positi, aequalis atque eadem differentia inter omnes dispositos terminos invenitur. In qua, neglecta proportionis aequalitate, terminorum tantum differentiarumque speculatio custoditur, ut 1, 2, 3, 4, 5, 6, 7, 8, 9, 10. In hac enim naturalis numeri dispositione, si quis continuatim differentias terminorum curet aspicere, secundum [1147D] arithmetica medietatem, aequa terminorum inter se discrepantia est. Aequales enim sunt differentiae, sed eadem proportio atque habitudo non est. Si igitur in tribus terminis consideratio sit, continua proportionalitas dicitur. Sin vero hic alius dux et alius comes, illic vero utriusque sint alii, vocabitur disjuncta medietas. Si igitur in tribus tantum terminis secundum continuam medietatem conspexeris, vel in quatuor, vel in quolibet aliis secundum disjunctam, easdem semper differentias terminorum videbis, tantum solis proportionibus permutatis. Id si in uno quis noverit, reliqua eum ratio non latebit. Sit continua medietas 1, 2, 3. Hic unus a duobus, et duo a tribus, solis tantum singulis distant, et sunt eadem differentiae, [1148A] proportionibus vero aliae. Namque duo ad unum duplus est, tres ad duo, sesquialter, et in caeteris idem videbis. Sin autem permiscens et aliquos praeteriens eligas, et in his aliquam speculationem ponas, idem poterit evenire. Nam si aequales terminos intermittas, et sese in priore dispositione praetereant, si singulos intermittas, solius binarii notabitur differentia, sin vero duo praetereas, ternarii, si tres, quaternarii, et ad eundem modum uno plus quam intermiseris, erit illa quam quaerimus differentia terminorum. Namque si in tribus terminis singuli relinquuntur, binarius semper intererit. [1148B] Videsne ut cum superius in naturalis numeri dispositione se termini singulis praeterirent, praetermissis duobus et 4, unus ad tres, et 3 ad quinarium comparati, binarium solum in differentia retinuerint. Nec non etiam in disjuncta eadem versabitur observatio. [1148C] Talibus igitur vestigiis insistentem, nullus ab eadem

similitudine error abducat. Namque si duos intermittas, ternarius differentiam continebit, si tres, quaternarius, si quatuor, quaternarius, aequae in continuis proportionibus atque disjunctis. Qualitas autem proportionis eadem non erit, quamvis sint aequis termini differentiis distributi. Quod si conversim ponantur, [1148D] ut non eisdem differentiis eadem qualitas proportionis eveniat, geometrica talis proportionalitas, non arithmetica nominatur. Est autem proprium hujus medietatis, quod si in tribus terminis speculatio sit, compositis extremitatibus, illa summa quae inter extremitates est, non loco tantum, verum etiam fit quantitate medietas. Ut si ponantur 1, 2, 3, unus et tres quatuor reddunt. Duo vero qui medius inter utrosque est, quaternarii medietas invenitur. Quod si bis medietatem ducas, aequus erit extremitatibus. Bis enim duo, quatuor creant. Sin vero disjuncta sit, quod fit ex utrisque extremitatibus compositis, hoc ex duabus medietatibus redditur. Si enim sunt 1, 2, 3, 4, unus et quatuor quinarium [1149A] creant, duo et tres medii in eundem rursus quinarium surgunt. Est illi hoc quoque solida proprietate conjunctum, quod quemadmodum sunt omnes termini hujusmodi dispositionis ad seipsos, ita sunt differentiae ad differentias constitutae. Namque omnis terminus sibi ipsi aequalis est, et differentiae differentiis sunt aequales. Illud quoque subtilius, quod multi hujus disciplinae periti, nisi Nicomachus nunquam antea perspexerunt, quod in omni dispositione, vel continua, [1149C] vel disjuncta, quod continetur sub duabus extremitatibus, minus est eo numero qui ex medietate conficitur, tantum quantum possunt duae sub se differentiae continere, quae inter ipsos sunt terminos constitutae. Ponamus enim tres terminos hujusmodi 3, 5, 7. Si igitur tres septies augeantur, in 21 numerum cadunt. Quod si medium terminum, id est 5, in semetipsum multiplicaveris, quinquies quinque faciunt 25. Et hic numerus ab eo quem extremitates colligunt, quaternario major est, quem scilicet differentiae conficiunt. Inter 3 enim et 5 et 7 bini intersunt quos si in sese multiplices 4 reddunt, bis enim duo, quatuor fiunt. Recte igitur dictum est, in hac hujusmodi dispositione quod continetur sub extremitatibus, [1149D] minus esse illo numero qui fit ex medietate, tantum quantum differentiae in se multiplicatae restituunt. Quartum vero proprium hujusmodi dispositionis notatur, quod antiquiores quoque habuere notissimum, quod in hac proportionalitate vel medietate, in minoribus terminis majores proportiones, in majoribus [1150A] minores comparationes necesse est inveniri. Namque in dispositione hac 1, 2, 3, minores sunt termini 1 et 2, majores 2 et 3, et 2 ad unum duplus est, 3 vero ad 2 sesquialter, sed major est proportio dupli quam sesquialtera. In harmonica autem medietate, e contrario evenire contingit. In minoribus enim terminis minores proportiones, in majoribus major proportionis quantitas custoditur. Harum vero medietatum, id est arithmeticae atque harmonicae, geometrica proportionalitas media esse notata est, quae vel in majoribus vel in minoribus terminis, aequas numerorum qualitates in proportionalitate custodit. Inter majus vero et minus, aequalitas loco ponitur medietatis. Et de arithmetica quidem medietate satis dictum est.

#### CAPUT XLIV. De geometrica medietate ejusque proprietatibus. [1150B]

Nunc vero quae hanc sequitur geometrica medietas expediatur, quae sola vel maxime proportionalitas appellari potest, propterea quod in ea eisdem proportionibus terminorum, vel in majoribus vel in minoribus speculatio ponitur. Hic enim aequa semper proportio custoditur, numeri quantitas multitudoque negligitur contrarie quam in arithmetica medietate, ut sunt 1, 2, 4, 8, 16, 32, 64. Vel in tripla proportione 1, 3, 9, 27, 81. Vel si quadrupla, vel si quincupla, vel si in quamlibet multiplicatam numerorum sit constituta distensio. In his enim quotlibet terminos sumpseris, explebunt geometricam medietatem, quemadmodum ante prior ad sequentem, ita sequens ad alium. Et rursus, si permixte facias, idem erit. [1150C] Si enim ponantur tres termini 2, 4 et 8, quemadmodum sunt 8 ad 4, ita 4 ad 2. Atque hoc si convertas, quemadmodum sunt 2 ad 4, ita erunt 4 ad 8. Vel si in quatuor terminis, ut sunt 2 et 4, 8 et 16, quemadmodum est primus ad tertium, id est 2 ad 8 sic erit secundus ad quartum, id est 4 ad 16. Utraque enim proportio quadrupla est. Et conversim, quemadmodum quartus est ad secundum, ita tertius notatur ad primum. Hoc vero etiam disjuncte licet. Nam [1150D] quemadmodum est primus ad secundum, id est 2 ad 4, sic tertius ad quartum, id est 8 ad 16; et conversim, quemadmodum secundus ad primum, id est 4 ad 2, ita quartus ad tertium, id est 16 ad 8, idque in omnibus rata consideratione perspicias. [1151A] Habet autem proprium hujusmodi medietas, quod in omni dispositione secundum hanc proportionalitatem terminorum differentiae in eadem proportione contra se sunt, qua fuerint ipsi termini quorum sunt ipsae differentiae. Sive enim dupli contra se sint termini, duplae erunt etiam differentiae sive tripli triplae, sive secundum quamlibet multiplicatam, eadem in differentiis multiplicitas erit, quam prima consideratio invenit in terminis, ut subjecta descriptio monet. Nulli igitur dubium esse potest, quod cum omnes termini dupli sint, ita differentiae quoque eorum terminorum [1151B] duplae esse videantur, ut uno minus termino in differentiis, omnes pene dispositos subter terminos quorum sunt ipsae differentiae, superior ordo reddiderit. Est etiam aliud proprium, quod omnis ad minorem major terminus comparatus ipsum minorem retinet differentiam. Namque binarius ad unitatem ipsa unitate differt, et quaternarius binario ipso binario, et octonarius quaternario ipso quaternario, et deinceps majores alii ipsis minoribus ab eisdem ipsis differunt quos numerositate praetereunt. Et hoc quidem in duplici proportione cadit. Sin vero sint triplices proportiones, major terminus a minore termino, duplicato minore termino differt. Ut si sint 1, 3, 9, tres ab uno, binario differunt, in quem unitas, id est minor terminus duplicatus exundat, et 9 a tribus [1151C] senario differunt, quem ternarius duplicatus educit. Et in aliis cunctis ejusmodi ratio reperietur. Sin vero quadruplices sint, triplicato minore termino, major terminus a minore distabit. Et si quincupli, quadruplicato, et si sexcupli, quincuplicato, et una minus

multiplicatione quam est ipsa minorum ad majores comparatio terminorum, minorem numerus major exsuperat. Haec autem proportionalitas et in aliis omnibus, vel superparticularibus, vel superpartientibus, invenitur, hujusmodi proprietate in omnibus conservata, ut in continua proportione, quod fit sub extremitatibus si tres fuerint termini, hoc a medietate multiplicata consurgat. Si enim sint 2, 4, 8, quod fit ex bis 8, idem fit ex quater 4. Vel si sit in quatuor terminis disjuncta proportio, quod fit sub utrisque extremitatibus, id duarum medietatum multiplicatione concreseat. [1152A] Ut si sint 2, 4, 8, 16, quod fit ex bis 16, id ex quater 8 reddatur. Exemplar autem nobis maximum certissimumque sit illud ubi ex aequalitate diximus omnes inaequalitatis species fundi. Illic enim, in omnibus vel multiplicibus, vel superpartientibus, vel superparticularibus, vel in caeteris conjunctis, geometrica proportionalitas custoditur, has omnes proprietates quas supradiximus continens. Quarta vero est proprietas hujusce medietatis, quod vel in majoribus vel minoribus terminis aequales semper proportionales sunt. Namque si ponantur 2, 4, 8, 16, 32, 64, inter hos omnes dupla proportio est. Apparet etiam haec proportionalitas in binis proportionibus, ab unitate alternatim parte altera longioribus quadratisque dispositis, a prima multipliciter habitudine, [1152B] id est a duplici per cunctas superparticulares habitudines proportionalesque discurrens, quod subjecta descriptione signatum est. [1152C]

**CAPUT XLV.** *Quae medietates, quibus rerum publicarum statibus comparentur.*

Atque ideo arithmetica quidem ei reipublicae comparatur quae paucis regitur, idcirco quod in minoribus ejus terminis major proportio sit. Musicam vero medietatem optimatum dicunt esse rempublicam, ideo quod in majoribus terminis major proportionalitas invenitur. Geometrica medietas, popularis quodammodo et ex aequalitate civitatis est. Namque vel in majoribus, vel in minoribus, aequali omnium proportionalitate componitur, et est inter omnes paritas quaedam medietatis aequum jus in proportionibus [1152D] conservantis.

**CAPUT XLVI.** *Quod superficies una tantum in proportionalitatibus medietate jungantur, solidi vero numeri duabus medietatibus in medio collocantur*

Post haec igitur tempus est ut expediamus nunc quiddam nimis utile in Platonica quadam disputatione, quae in Timaei cosmopeia haud facili cuiquam vel penetrabili ratione versatur. Omnes enim planae figurae quae nulla altitudine crescunt, una tantum medietate geometrica continuantur, alia quae jungat non potest inveniri; unde duo tantum in his intervalla sunt constituta, a primo scilicet ad medium, et a medio ad tertium. Si vero fuerint cubi, duas tantum habebunt medietates, ubi tertia inveniri non poterit, [1153A] secundum geometricam scilicet proportionem. Unde formae solidae tria intervalla dicuntur habere. Est enim unum intervallum a primo ad secundum, et a secundo ad tertium, et a tertio ad quartum, quae est scilicet postrema distantia. Rectae igitur et planae figurae duobus intervallis et solidae tribus contineri dicuntur. Sint enim duo tetragoni, 4 scilicet et 9, horum igitur unus tantum medius in eadem proportione constitui potest. Namque senarius ad 4 sesquialter est, et 9 ad senarium eodem modo sesquialter. Hoc autem idcirco evenit, quod singula latera, singulorum tetragonorum efficiunt senariam medietatem. Namque quaternarii tetragoni latus binarius est, novenarii ternarius; hi ergo multiplicati senarium perfecerunt. Bis enim tres senarius est. Et quotienscunque, [1153B] datis duobus tetragonis, eorum medietatem volumus invenire, latera eorum multiplicanda sunt, et qui ex his procreabuntur, medietas est. Si autem cubi sint, ut 8 et 27, duae tantum inter hos eadem proportione medietates constitui queunt, 12 scilicet et 18, namque 12 ad 8, et 18 ad 27, sesquialtera tantum proportione junguntur. In his quoque eadem laterum ratio est. Namque ex uno cubo qui propinquior est, una medietas duo latera colligit; ex alternatim vero posito, unum. In alia quoque medietate idem est. Ponantur enim duo cubi, et in medio eorum duae medietates quas superius diximus, 8, 12, 18, 27, octonarii igitur latus est binarius, bis enim bini bis octonarium fecerunt. Ternarius vero 27 cubi latus est. Ter enim tres ter 27 restituunt. Medietas [1153C] igitur quae juxta octonarium est, id est 12, mutatur duo latera ex propinquo sibi octonario, et aliud unum latus ex altrinsecus posito 27 cubo. Bis enim bini ter 12 pandunt. Et 18 eadem ratione duo latera a propinquo sibi 27 cubo colligit, et unum ab altrinsecus posito octonario. Tres enim ter bis 18 concludunt. Hoc autem universaliter speculandum est, si tetragonus tetragonum multiplicet, sine dubio tetragonus provenit. Sin vero parte altera longior tetragonum multiplicet, vel tetragonus parte altera longiorem nunquam tetragonus, sed semper antelungior crescit. Rursus si cubus cubum multiplicaverit, cubi forma conficitur. Si vero parte altera longior cubum, vel cubus parte altera longiorem, nunquam cubus procreabitur, hoc scilicet secundum similitudinem [1153D] paris atque imparis. Par enim parem si multiplicet, semper par nascitur, et impar imparem si multiplicet, impar continuo procreatur. Si vero impar parem, vel si par imparem multiplicet, par semper exoritur. Hoc autem facilius cognoscitur ex lectione Platonis in libris de Republica, eo loco qui nuptialis dicitur, quem ex persona Musarum philosophus introducit. Sed nunc ad tertiam medietatem redeundum est.

**CAPUT XLVII.** *De harmonica medietate ejusque proprietatibus.*



Harmonica autem medietas est quae neque eisdem differentiis, nec aequis proportionibus constituitur, sed illa in qua quemadmodum maximus terminus ad parvissimum terminum ponitur; sic differentia maximi [1154A] et medii contra differentiam medii atque parvissimi comparatur. Ut si sint 3, 4, 6, vel si 2, 3, 6. Senarius enim quaternarius sua tertia parte superat, id est duobus; quaternarius vero ternarius sua quarta parte supervenit, id est uno; et senarius ternarius sua medietate, id est tribus, ternarius vero binarius sua parte tertia, id est unitate transcendit. Quare in his neque eadem proportio terminorum est, neque sunt eadem differentiae. Est autem quemadmodum maximus terminus ad parvissimum terminum, sic differentia maximi et medii ad differentiam medii atque postremi. Namque in hac proportione, quae est, 3, 4, 6, major terminus, id est senarius ad parvissimum terminum ternarius duplus est, et differentia maximi et medii, id est senarii et quaternarii, duo scilicet [1154B] ad differentiam medii et ultimi, id est quaternarii atque ternarii, quae est unitas, dupla perspicitur. Sed hoc quoque subjecta descriptione monstratur: Habet autem proprietatem, quemadmodum dictum est, contrariam arithmeticae medietati. In illa enim, [1154C] in minoribus terminis major erat proportio, in majoribus minor; in hac vero, in majoribus quidem terminis major est proportio, in minoribus vero minor. Namque in hac dispositione 3, 4, 6, tres ad quatuor comparati sesquiterciam habitudinem, sex vero ad quatuor sesquialteram reddunt; sed major est proportio sesquialtera a sesquitercia, tantum quantum pars tertia medietate transcenditur. Juste igitur medietas quaedam geometrica proprieque esse proportionalitas iudicatur, scilicet inter eam ubi in majoribus terminis minor est proportio, et minoribus major, et inter eam ubi in majoribus major est, in minoribus minor. Illa est enim vere proportionalitas quae, medietatis quodammodo locum obtinens, et in majoribus et in minoribus, aequalibus proportionum [1154D] comparisonibus continetur. Hoc quoque signum est, duarum extremitatum mediam esse quodammodo geometricam proportionem. Namque in arithmetica proportione, medius terminus eadem sua parte, et minorem praecedit et a majore praeceditur, sed alia parte minoris, alia vero parte majoris. Sit enim arithmetica dispositio 2, 3, 4. Ternarius igitur numerus binarius tertia sua parte praecedit, id est uno, et a quaternario tertia sua parte praeceditur, id est uno. At vero ternarius non eadem parte minoris minorem vincit, vel majoris a majore superatur. Namque minorem, id est binarium, uno superat, id est ipsius medietate binarii, a quaternario vero uno relinquitur, quae pars quaternarii quarta est. Recte [1155A] igitur dictum est medium terminum in hujusmodi medietate eadem sui parte et minorem vincere et a majore superari, sed non eisdem partibus, vel minoris minorem transgredi, vel majoris a majore transcendi. Contrarie harmonica medietas proportionem habet. Namque non eadem parte sua, medius terminus in hac proportione vel minorem vincit, vel a majore superatur, sed eadem parte minoris minorem superat, qua parte majoris a majore superatur. In hac enim dispositione harmonica, quae est 2, 3, 6, ternarius binarium tertia sui parte vincit, idem ternarius a senario tota sui quantitate superatur, id est tribus. Idemque ipse ternarius, medietate minoris vincit minorem, id est uno, et medietate majoris a majore termino vincitur, id est tribus. Senarii enim [1155B] medietas ternarius est. In geometrica vero medietate, neque eisdem suis partibus medius vel vincit minorem, vel a majore vincitur, neque eadem parte vel minoris minorem superat, vel majoris a majore relinquitur, sed qua parte sua medius terminus minorem superat, eadem parte sua major terminus medium vincit. Quod est ut medietas atque extremitas, aequalibus medietatem et extremitatem reliquam suis partibus supervadant. In hac enim dispositione, quae est 4, 6, 9, tertia sui parte medius senarius quaternarius superat, id est duobus, et tertia sui parte rursus novenarius senarius vincit, id est tribus. Habet autem aliam proprietatem harmonica medietas, ut cum duas extremitates in unum redactas, medietas multiplicaverit, dupla quantitas colligitur, quam si [1155C] se multiplicent duae extremitates. Sint enim hi termini 3, 4, 6. Si igitur ternarius et senarius jungas, novenarius facies, qui per quaternarium ductus 36 efficit. Quod si se ipsae extremitates multiplicent, et fiant tres sexies, 18 conficiunt, quod est prioris summae dimidium.

#### **CAPUT XLVIII.** *Quare dicta sit harmonica medietas ea quae digesta est.*

Considerandum forsitan videatur cur hanc harmonicam medietatem vocemus. Cujus haec ratio est, quoniam arithmetica dispositio aequas tantum per differentias dividit quantitates, geometrica vero terminos aequa proportione conjungit. At vero harmonica ad aliquid quodammodo relata consideratione, [1156A] neque solum in terminis speculationem proportionis habet, neque solum in differentiis, sed in utrisque communiter. Quaerit enim ut quemadmodum sunt ad se extremi termini, sic majoris ad medium differentia, contra differentiam medietatis ad ultimum. Ad aliquid autem, considerationem harmonicae proprie esse, in primi libri rerum omnium divisione monstravimus. Ipsarum quoque musicarum consonantiarum quas symphonias nominant proportionem, in hac pene sola medietate frequenter invenias. Namque symphonia diatessaron, quae princeps est et quodammodo vim obtinens elementi, constituta scilicet in epitrita proportione, ut est quaternarius ad ternarium, in ejusmodi harmonicis medietatibus invenitur. Sint enim ejusmodi harmonicae medietatis [1156B] termini quorum extimi dupli sint, et rursus alia hujusmodi dispositio quorum extimi tripli. Senarius igitur ad ternarium duplus est. Idem autem in alia dispositione, senarius ad binarium triplus. Horum igitur si differentias colligamus et ad se invicem comparemus, epitrita proportio colligitur, unde diatessaron symphonia resonabit. Inter 3 enim et 6 ternarius est, et inter binarium et senarium quaternarius, qui, sibimet comparati, sesquiterciam efficient proportionem. [1156C] In eadem quoque medietate et diapente symphonia componitur, quam sesquialtera habitudo restituit. Nam in utrisque dispositionibus his quae subjectae sunt, in duplici senarius ad quaternarium

sesquialter est, in triplici ternarius ad binarium, ex quibus utrisque, diapente symphonia conjungitur. [1156D] Post hanc autem diapason consonantia, quae fit ex duplici, ut est in subjecta formula. [1157A] In triplici quoque dispositione, simul diapente et diapason symphonia componitur, servans sesquialteram et duplicem rationem, quod subjecta descriptio docet. [1157B] Et quoniam triplus duas continet consonantias, diapente, scilicet, et diapason, in hujus triplicis positione in differentiis eundem rursus triplum reperiemus, secundum subter descriptum modum. [1157C] In dupla vero dispositione, major terminus ad medii termini contra se differentiam, triplus est, et rursus minor terminus ad medii contra minorem terminum comparati differentiam, triplus est. [1157D] Illa autem maxima symphonia quae vocatur bis diapason, velut bis duplum, quoniam diapason symphonia ex duplici proportione colligitur, huic se juncturae harmonicae medietatis interserit. Nam in duplici proportione, medius terminus ad minoris suique differentiam quadruplus invenitur. [1158A] In triplicibus quoque extremitatibus, major differentia ad minorem differentiam quadrupla est, et bis [1158B] diapason symphoniam emittit. Namque in dispositione 2, 3, 6, extremorum differentia est, id est senarii et binarii, 4; minor vero differentia, id est, ternarii et binarii, unus; 4 autem uno quadruplo major est relatione, quae comparatio bis diapason consonantiam tenet.

#### CAPUT XLIX. *De geometrica harmonia.* [1158C]

Vocant autem quidam harmonicam hujusmodi medietatem, idcirco quod semper haec proportionalitas, geometricae harmoniae cognata est, harmoniam autem geometricam, cubum dicunt. Ita enim ex longitudine in latitudinem distentus est, et in altitudinis cumulum crevit, ut ex aequalibus proficiscens, ad aequalia perveniens, aequaliter totus sibi conveniens creverit. Haec autem medietas, in omnibus cubis quae est geometrica harmonia perspicitur. Omnis enim cubus habet latera 12, angulos 8, superficies 6. Hic autem ordo et dispositio harmonica est. Disponantur enim 6, 8, 12; hic ergo quemadmodum est major terminus ad parvissimum, ita differentia majoris [1158D] et medii ad parvissimam comparatur. Perpensi namque 12 ad sex dupli sunt, differentia vera 12 et octonarii quaternarius est, octonarii vero et [1159A] senarii duo, dupla autem ratione distabunt duobus quatuor comparati. Rursus octonarius, qui medietas est, alia sua parte minorem praecedat, et alia sua parte a majore praecedatur, eadem autem parte minoris minorem superat qua parte majoris a majore superatur. Rursus si extremitates in unum redigantur et a medietate octonario multiplicentur, duplus erit ab eo numero quem solae extremitates multiplicatae perfecerint. Omnes autem in hac dispositione symphonias musicas invenimus. Diatessaron quidem est octo ad sex, quoniam proportio sesquitercia est. At diapente, 12 ad 8, quoniam ea quae sesquialtera comparatio dicitur, in ea diapente consonantia reperitur. Diapason vero, quae ex duplici nascitur, ex 12 ad sex compositione producitur. Diapason vero et [1159B] diapente, quae triplicis obtinet rationem, fit ab extremitatum differentia, ad differentiam minorem. Namque duodenarii et senarii sex differentia est; minor vero est differentia octonarii et senarii, id est 2. Qui senarius ad binarium triplus est, et diapason simul et diapente consonantia sonant. Illa vero major consonantia quae est bis diapason, quae ex quadruplo fit in medii termini, id est octonarii, et ejus differentiae comparatione perspicitur, quae inter octonarium senariumque reperitur. Quare proprie atque convenienter hujusmodi proportionalitas harmonica medietas appellatur.

#### CAPUT L. *Quemadmodum constitutis altrinsecus duobus terminis, arithmetica, geometrica, et harmonica inter eos medietas alternetur, atque de eorum generationibus.* [1159C]

Nos autem praestare debemus, quatenus quemadmodum dato calamo, extremis foraminibus manentibus musicis mos est, ut medium foramen permutantes, atque aliud aperientes, aliud digitis occludentes, diversos emittant sonos, vel cum duabus altrinsecus protensis chordis, medii nervi sonum musicus vel astringendo tenuat, vel remittendo gravat, ita quoque datis duobus numeris, nunc quidem arithmetica, nunc vero geometricam, nunc autem harmonicam medietatem experiamur inserere, ut rectum propriumque medietatis nomen sit, quod manentibus [1159D] extremitatibus huc atque illuc ferri permutatique videatur. Poterimus autem hanc in duobus altrinsecus positis terminis, vel paribus vel imparibus permutare, ita ut cum arithmetica ponimus medietatem differentiarum tantum ratio aequalitasque servetur. Cum vero geometricam, rata se proportionum junctura custodiat. Sin autem harmonia fiat differentiarum comparatio, ab terminorum proportione non discrepet. Et sint quidem primo pares positae quaedam extremitates, inter quas has omnes medietates oporteat internectere, 10 et 40. Prius igitur arithmetica medietas aptetur. Inter hos ergo si 25 posuero, erit mihi arithmetica proportio differentiarum quantitate immutabiliter custodita, in hujusmodi, scilicet [1160A] dispositione 10, 25, 40. Vides enim ut quindenae sese summulae quantitate transcendat. Omnesque proprietates, quas supra diximus in medietate arithmetica convenire ab hac hujusmodi dispositione non reperies alienas. Namque quemadmodum unusquisque eorum terminus ad seipsum est, quoniam sibi aequalis est, ita sunt ad se invicem differentiae quoniam sibi sunt aequales, et quanto major terminus medium transit, tanto medius vincit minorem. Et extremitatum aggregatio duplex est medietate, et minorum terminorum proportio major est [1160B] illa comparatione, quae inter majores terminos continetur. Et tanto minor est numerus qui fit ex multiplicatis extremitatibus, ab eo qui fit ex multiplicata medietate, quantum eorum differentiae multiplicatae restituunt. Illud quoque quod medietas eadem sui parte et a majore vincitur, et minorem ipsa supervenit, non eadem autem parte

minoris minorem transit, vel majoris a majore relinquitur, quae omnes scilicet proprietates non alterius nisi arithmeticae medietatis sunt. Quod si superius dicta meminerit lector, ita esse indubitanter intelliget. Rursus si inter eosdem 10 et 40 viginti constituam, statim geometrica medietas cum suis proprietatibus cunctis exoritur, arithmetica medietate pereunte. In hac enim dispositione 10, 20, 40, quemadmodum est major ad medium, [1160C] sic medius ad extremum. Et quod continetur ab extremitatibus, aequum est ei quod a multiplici medietate completur. Differentiae quoque eorum in eadem sunt proportione qua termini. Crementum vero et imminutio proportionum secundum terminos nulla est, sed majorum terminorum proportio a minorum terminorum proportione non discrepat. Si vero harmonicam medietatem conjungere velim, 16 mihi numerus inter extremitates utrasque ponendus est, ut sit hoc modo 10, 16, 40. Nunc igitur licet in hujusmodi dispositione omnes harmonicas proprietates agnoscere, qua enim maximus ad parvissimum terminus proportione jungitur, eadem proportione differentiae ad se invicem comparantur. Et quibus partibus majoris a majore medius vincitur, eisdem [1160D] partibus minoris praeterit minorem. Suis vero non eisdem vel a majore vincitur, vel transit minorem. Et in majoribus terminis major est proportio, in minoribus minor. Et si in unum extremitatis redigantur, et medietatis quantitate concrecant, duplus inde conficitur numerus ab eo qui ex solis multiplicatis extremitatibus procreatur. Atque hoc quidem in terminis paribus constitutum est. At vero si impares proponantur, ut sunt 5 et 45, aptatus medius 25, arithmetica proportionem medietatemque constituit. Nam si sint 5, 25, 45, eadem sese numerorum quantitate termini transgredientur, et omnis superius dicta proprietates arithmeticae medietatis in his terminis custoditur. Sed si 15 numerum medium ponam, ut [1161A] sint 5, 15, 45, in geometricam medietatem termini relabuntur, aequalibus terminorum ad se invicem proportionibus custoditis. Novem vero si inter utrosque terminos ponam, ut sint 5, 9, 4, 5, fit harmonica medietas, ut qua summa maximus numerus parvissimum praecedat, eadem major differentia minorem differentiam vincat. Qua vero disciplina hujusmodi medietates reperiri possimus, expediendum est. Datis duobus terminis, si arithmetica medietatem constituere oportebit, utraque est extremitas conjungenda, quodque ex ea copulatione colligitur dividendum, isque numerus qui ex divisione redactus est, arithmetica medietatem inter extremitates locatus efficit: ut 10 et 40 si junxero efficiunt 50, quos si dividam, 25 redduntur. Hic erit medius terminus secundum [1161B] arithmetica proportionem. Vel si illum numerum quo major minorem superat divides, eumque minori superponas, quodque inde concrecant medium ponas, arithmetica medietas informatur. Nam 40 denarium tricenario superat; quem si divides 15 fiunt; hunc si minori, id est denario, superposueris, 20 et 5 nascentur; quem si medium constituas, arithmeticae medietatis ordo formatur. Geometricam vero si rationem vestiges, ejus numeri qui sub utrisque extremitatibus continentur, tetragonum latus inquire, et hunc medium pone. Nam sub 40 et denario numero 400 continentur. Si enim denarium in 40 multiplices, hic numerus crescit. Horum igitur quadringentorum require tetragonum latus, hi sunt 20. Vicies enim 20, 400 efficiuntur. Repertum ergo [1161C] latus quadratum, medium constituas. Vel si eam proportionem quam inter se dati termini custodiunt divides, et id quod relinquetur medium terminum ponas. Namque 40 ad denarium quadruplus est. Igitur quadruplum si divides, duplum facies, qui est scilicet 20. Nam 20 ad denarium duplus est. Hunc si medium constituas, medietatem geometricam perferet. Harmonicam vero medietatem, tali modo reperies: differentiam terminorum in minorem terminum multiplica, et post junge terminos, et juxta eum qui inde confectus est, committe illum numerum qui ex differentiis et termino minore productus est. Cujus cum latitudinem inveneris, addas eam minori termino, et quod inde colligitur medium terminum pones, 10 enim et 40, 30 sunt; quem si multiplicas in denarium, [1161D] id est in minorem, decies 30, oportet 300 efficias. Quos 300 juxta eum committe qui ex junctis utrisque confectus est, id est juxta 50, facient enim quinquages senos, et invenitur latitudo senarius. Hunc igitur si minori termino addas, facient 16, et hic numerus medius constitutus inter 10 et 40, harmonicam proportionem medietatemque servabit.

#### **CAPUT LI.** *De tribus medietatibus quae harmonicae et geometricae contrariae sunt.*

Hae quidem sunt apud antiquiores inventae probataeque medietates, quas idcirco longius enodatusque tractavimus, quod hae maxime in antiquorum lectionibus inveniuntur, et ad omnem pene vim cognitionis [1162A] eorum versatur utilitas. Caeteras autem praetereundo transcurramus, idcirco quod non multum nobis in lectionibus prosunt, sed tantum ad implendam denarii numeri quantitatem. Quae, ne lateant neve sint aliquibus ignoratae, depromimus. Videntur enim hae supradictis medietatibus esse contrariae, ex quibus originem trahunt. Ex his enim etiam istae sunt constitutae. Est autem quarta medietas quae opposita videtur harmonicae, in qua tribus terminis positus, quemadmodum est maximus terminus ad parvissimum, sic differentia minorum ad differentiam maximorum. Ut sunt 3, 5, 6, sex ad ternarium duplus. Et sunt minores 5 et 3, maximi vero hujus dispositionis 6 et 5. Differentia vero minorum, quinarium scilicet et ternarium 2 sunt, majorum, quinarium et senarium, [1162B] 1, qui 2 ad unum comparati duplum faciunt. Ergo quemadmodum est maximus terminus ad parvissimum, sic minorum terminorum differentia est ad differentiam maximorum. Liqueat autem oppositam et quodammodo contrariam esse hanc medietatem harmonicae medietati, idcirco quod in illa quemadmodum est maximus terminus ad parvissimum, sic majorum terminorum differentia [1162C] ad differentiam minorum. Hic autem econtrario. Est autem proprium hujus medietatis, quoniam quod continetur sub maximo termino et medio duplum est eo quod continetur sub medio atque parvissimo; sexies enim quinque 30 sunt, quinquies vero tres 15.

Duae vero aliae medietates, quinta scilicet et sexta, geometricae medietati contrariae sunt, et eidem videntur oppositae. Est autem quinta medietas, quotiens in tribus terminis, quemadmodum est medius terminus ad minorem terminum, ita eorum differentia ad differentiam medii atque majoris. Nam in hac dispositione 2, 4, 5, quaternarius ad binarium duplus est; sed inter quaternarium et binarium duo sunt, inter quaternarium vero et majorem terminum, id est quinque, 1, et duo ad unum dupli sunt. **[1162D]** Contrarium autem geometricae medietati in hac proportione est, quod in illa quemadmodum major terminus ad minorem esset, sic majorum differentia ad differentiam minorum. Hic vero contrarie, quemadmodum minores ad se termini sunt, sic minorum differentia terminorum ad majorum differentiam comparatur. Est autem proprium in hac quoque dispositione, **[1163A]** quod illud quod continetur sub majore termino et medietate duplum est, eo quod sub utrisque extremitatibus continetur. Nam quinquies quatuor sunt 20, quinquies vero 2 sunt 10, et 20 denarii duplus est. Sexta vero medietas est quando tribus terminis constitutis, quemadmodum est major terminus ad medium, sic minorum terminorum differentia ad differentiam maximorum. In dispositione enim quae est 1, 4, 6, maximus terminus ad medium sesquialter est, differentia vero minorum, id est unius et 4, ternarius est, majorum vero, id est quaternarii et senarii, binarius. **[1163B]** Ternarius autem binario comparatus, sesquialteram habitudinem proportionis efficit. Eodem autem modo haec quoque medietas geometricae contraria est, quemadmodum et quinta propter proportionem differentiarum a minoribus ad majores terminos conversam.

**CAPUT LII.** *De quatuor medietatibus quas posterius ad implendum denarium litem adiecerunt.*

Et hae quidem sunt sex medietates, quarum tres a Pythagora usque ad Platonem Aristotelemque manserunt. **[1163C]** Post vero qui insecuti sunt, has tres alias, de quibus supra disseruimus, suis commentariis addidere. Sequens autem aetas, quemadmodum diximus, ad implendam denariam quantitatem, alias quatuor medietates apposuit, quas non adeo quis in veterum libris inveniat. Has igitur nos quam possumus brevissime disponamus. Prima enim quae est earum, in ordine vero septima medietas, hoc modo conjungitur, cum in tribus terminis, quemadmodum est maximus terminus ad ultimum, sic maximi et parvissimi termini differentia, ad minorum differentiam terminorum, ut in hac dispositione 6, 8, 9. Novenarius igitur ad senarium sesquialter est, quorum est differentia ternarius. Minorum vero terminorum, id est octonarii **[1163D]** et senarii, binarius differentia est, qui ad superiorem ternarium comparatus, facit sesquialteram proportionem. Secunda vero inter quatuor, sed octava in ordine proportionalitas est, quotiens in tribus terminis, quemadmodum sunt extremitates ad se invicem comparatae, sic eorum differentia ad majorum terminorum **[1164A]** differentiam, ut sunt 6, 7, 9. Novem igitur ad 6 sesquialter est, et eorum differentia ternarius est, qui comparatus contra majorum differentiam, id est septenarii et novenarii, qui binarius est, reddit sesquialteram proportionem. Tertia vero inter has sequentes quatuor, nona autem in ordine proportio est, quando tribus terminis positus, quam proportionem medius terminus ad parvissimum custodit, eam retinet extremorum differentia **[1164B]** ad minorum differentiam comparata, ut 4, 6, 7. Etenim 6 ad 4 sesquialter est, quorum est differentia binarius; septenarii vero et quaternarii, ternarius differentia est, quem si ad superiorem binarium comparemus, sesquialtera proportione conjungitur. Quarta vero, quae in ordine decima est, consideratur in tribus terminis, cum tali proportione medius terminus **[1164C]** ad parvissimum comparatur, quali extremorum differentia contra majorum terminorum differentiam proportione conjungitur, ut sunt tres, quinque, octo. Quinarius enim medius terminus, ad ternarium superbipartiens est. Extremorum vero differentia, octonarii scilicet et ternarii, quinarius, qui comparatus contra majorum terminorum differentiam, scilicet quinarii et octonarii, qui est ternarius, et ipse quoque superbipartiens invenitur.

**CAPUT LIII.** *Dispositio decem medietatum.*

Disponamus igitur cunctas medietates in ordinem, ut cujusmodi omnes sint, facillime possint intelligi. **[1164D]**

**CAPUT LIV.** *De maxima et perfecta symphonia, quae tribus distenditur intervallis.*

Restat ergo de maxima perfectaque harmonia disserere, **[1165A]** quae tribus intervallis constituta, magnam vim obtinet in musici modulaminis temperamentis et in speculatione naturalium quaestionum. Etenim perfectius hujusmodi medietate nihil poterit inveniri, quae tribus intervallis producta, perfectissimi corporis naturam substantiamque sortita est. Hoc enim modo, cubum quoque trina dimensione crassatum, plenam harmoniam esse monstravimus. Haec autem hujusmodi invenietur, si duobus terminis constitutis, qui ipsi tribus creverint intervallis, longitudine, latitudine et profunditate, duo hujusmodi termini medii fuerint constituti, et ipsi tribus intervallis notati, qui vel ab aequalibus per aequales aequaliter sint producti, vel ab inaequalibus ad inaequalia aequaliter, vel ab inaequalibus ad aequalia aequaliter, vel quolibet **[1165B]** alio modo, atque ita cum harmonicam proportionem custodiant, alio tamen modo comparati, faciunt arithmetica medietatem, hisque geometrica medietas, quae inter utrasque versatur, deesse non possit. In quatuor enim terminis si fuerit, quemadmodum primus ad secundum, sic tertius ad quartum, proportionum ratione scilicet custodita, geometrica medietas explicatur. Et quod continetur sub extremitatibus aequum erit ei quod sub utraque medietate ad se

invicem multiplicata conficitur. Rursus, si maximus quatuor terminorum numerus ad eum qui sibi propinquus est talem habeat differentiam, qualem idem esse maximo propinquus ad parvissimum, hujusmodi proportio in arithmetica consideratione proponitur. Et extremorum conjunctio duplex erit propria [1165C] medietate. Si vero inter quatuor qui est tertius terminus, a qua parte quarti, quartum terminum superet, et aequa primi a primo superetur, harmonica hujusmodi proportio medietasque perspicitur: et quod continetur sub extremorum aggregatione et multiplicatione medietatis, duplex est eo quod sub utraque extremitate conficitur. Sit autem quoddam hujus dispositionis exemplar hoc modo, 6, 8, 9, 12. Has igitur omnes solidas quantitates esse non dubium est. Sex enim nascuntur ex uno bis ter, 12 autem ex bis duo ter. Horum autem medietates, octonarius fit semel duo quater. Novenarius vero semel tres ter. Omnes igitur termini cognati sibi, et tribus intervallorum dimensionibus notati sunt. In his igitur geometrica proportionalitas invenitur, si 12 ad 8 [1165D] vel 9 ad 6 comparemus. Utraque enim comparatio sesquialtera proportio est, et quod continetur sub extremitatibus idem est ei quod fit ex mediis. Namque quod fit ex duodecies 6, aequum est ei quod fit ex octies 9: geometrica ergo proportio hujusmodi est; arithmetica autem est, si duodenarius ad novenarium, et novenarius ad senarium comparetur. In utrisque enim ternarius differentia est, et junctae extremitates medietate duplae sunt. Si enim junxeris senarium et duodecim facies 18, qui est novenario medio termino duplus. In his ergo geometricam arithmeticaque medietatem perspeximus. Hic quoque harmonica medietas invenitur, si 12 ad 8 et rursus 8 ad 6 comparemus. Qua enim parte senarii [1166A] octonarius senarium superat, id est parte tertia, eadem duodenarii parte, octonarius superatur. Quatuor enim quibus octonarius a duodenario vincitur, duodenarii tertia pars est. Et si extremitates jungas 6 scilicet et 12, easque per octonarium medium multiples, 144 sunt. Quod si se extremitates multiplicent, sex scilicet et 12, facient 72, quo numero 144 duplus est. Inveniemus hic quoque omnes musicas consonantias. Namque 8 ad 6 et 9 ad 12 comparati sesquiterciam proportionem reddunt, et simul diatessaron consonantiam. Sex vero ad 9 vel 8 ad 12 comparati, reddunt sesquialteram proportionem, sed diapente symphoniam. Duodecim vero ad senarium considerati duplicem proportionem, sed diapason symphoniam canunt. Octo vero et 9 ipsi contra se [1166B] medii considerati, epogdoun jungunt, qui in musico modulamine tonus vocatur, quae omnium musicorum sonorum mensura communis est. Omnium enim est sonus iste parvissimus. Unde notum est quod diatessaron et diapente consonantiarum, tonus differentia est, sicut inter sesquiterciam et sesquialteram proportionem sola est epogdous differentia. Ejus autem descriptionis, subter exemplar adjecimus. [1166C] [1167A]

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**0480-0524 - Boethius. Severinus - De Arithmetica Libri Duo**  
**Verborum Omnium Conspectus**

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«Ubi Petrus, ibi Ecclesia, ibi Deus» Ambrosius ... .. «Amici Veri Ecclesiae Traditionalisti Sunt.» Divus Pius X Papa: «Notre Charge Apostolique»