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PRÆCEPTUM 13. Est igitur ratio facilima, & casu; Regulæ præmissæ primus. Numeri enim propositi, in sexagesimariâ quæsiti Log-us duplicatur: Summa, ut Logarithmus, exhibet ex Sexagesimariâ eâdem, quæsitum propositi Logistici Quadratum.

EXEMPLA.

Sit quadrandus 49′.53″. ejus Logarithmus, 18499. Hic duplicatus 36998, dat 41′.27″. quadratum de 49′.53″.

Sit quadrandus 1°.23′.15″. Hic in sexagesimariâ privatorum quæsitus, invenit Logarithmum —32773. Hujus duplum —65546. ut privativus, dat ex privativorum sexagesimaria, 1°.55′.32″. quadratum.

Supplementif. 136.140. 141. Cur autem horum Quadratorum prius sit suâ radice minus, hoc majus, id explicatur alibi: & dixi aliqua in supplemento Chiliadis.

PRÆCEPTUM 14. DE LOGISTICI NUMERI, UT QUADRATI, RADICE EXTRAHENDA, OPE HEPTACOSIADIS.

EJus, qui pro Quadrato offertur, Logarithmum bipartire: Semissis iste ex sexagesimariâ exhibet quæsitam radicem.

Sint Quadrati	41′.27″. &	1°.55′.32″.
Logarithmi ex sexag.	36998.	—65546.
Fac semisses	18499.	—32773.

Hi dant, ex sex: sinistra 49′.53″. *dext.* 1°.23′.15″.

DE MEDIO PROPORTIONALI INTER DUOS LOGISTICOS INVENIENDO.

PRÆCEPTUM 15. SI datorum alteruter fuerit 60′. sive 1°: tunc radix reliqui, quæsita, ut priùs, est medium proportionale imperatum. Si verò neuter datorum fuerit 60. sive 1°: Logarithmos datorum ex Heptacosiade desumptos conjice in unam summam: hujus semissis ostendet ex sexagesimariis, quæsitum medium proportionalem.

Exempl. 1. *Sint Logistici* 49′.53′. *Logarithmus* 18499.
Et 41′.27″. *Logarithmus.* 36998.

Summa — 55497.
Semissis 27749.

Hinc semissis quæsitus in Heptacosiade, ostendit in sexagesim. medium proportionalem, 45′.33″.

Exempl. 2. *Sint Logistici* 1°.23′.15. *Log.*— 32773.
Et 1. 55.32. *Log.* — 65546.

Summa — 98319.
Ejus semissis — 49160.

Hic dat ex Heptacos. 1°.38′.8″. *Medium proportionale inter* 1°.23′.15″ & 1°.55′32″.

Exempl. 3. *Sint Logistici* 41′.27″. *Log.* 36998.
Et 1°.55′.32″. *Log.* —65546. *privat.*

Adde cossice fiet summa — 28548. *privat.*
Ejus semissis — 14274.

Hic ut privativus, dat ex Sexag. dextra 1°.9′.13″, *medium proport. inter* 41′.27″ & 1°.55′.32″.

CAPUT VII.

DE USIBUS HEPTACOSIADIS ALIIS.

SUNT Usus aliqui Heptacosiadis hujus in operationibus Tabularibus, non ij præcipui; nec Logarithmorum, sed tantùm columellarum, Logarithmos proximè circumstantium.

PRÆCEPTUM 16. Primus eorum est, quòd per dictas duas columellas junctas, antiquatur usus Tabulæ conversionis HORARUM & MINUTORUM in Scrupula Diei; & vicissim, SCRUPULORUM DIEI in Horas & Minuta. De hoc usu etsi egi in supplemento Chiliadis capite IV. non erat tamen is Chiliadis, sed est hujus Heptacosiadis formæ proprius. Itaq; paucioribus nobis verbis hîc est opus, quàm in supplemento: adeóq; sufficit unum par exemplorum.

Vt monui fol: 129. supplem.

EXEMPLUM I.

Anni Tropici longitudo media supra Dies 365. est in his Tabulis ista — *Quantitas Anni Tropici.*

Hor. 5.48′57″35‴47ⁱᵛ24ᵛ56ᵛⁱ15ᵛⁱⁱ0ᵛⁱⁱⁱ48ˣ

Quæritur hæ horæ & minuta, quot sint Scrupula Diei. Cum agatur de Horis, adhibenda erit Quadrivicenaria. Dissolve ergo membra hujus longi Numeri in membra seu Numeros, contentos in Quadrivicenaria: & cum singulis dissoluti Numeri membris in Quadrivicenaria quæsitis, exscribe ex sexagesimaria sinistra singula membra respondentia, eodem situ & ordine; eaque vicissim in unam Summam redige sic

5.48			
0.56			*Dissolutio Numeri*
	1.34		*Horas significantis.*
14.30	1.46		
2.20	1.24		
	3.55.	0.56	
Scrupula	4.25	0.14	
Diei singulis membris		3.30.	1. 0
		2.20.	0.48.
Horariis respondentia.		0.35.	
		2.30.	
			2. 0.

14′32.23.59.28.32.20.37.32. 0ˣ.

Tanta est appendix Scrupularia ad dies 365. seu ad 6′.5°. ad exprimendam longitudinem anni Tropici.

EXEMPLUM. II.

VICISSIM *Anni siderii Longitudo Media est in Scrupulis Diei supra integros 365 ista.*

15′24″8‴37ⁱᵛ42ᵛ12ᵛⁱ. — *Quantitas Anni Siderii.*

Quæritur tot Scrupula Diei quot faciant Horas. Cum dies dividi intelligatur in Scrupula 60. adhibenda erit Sexagesimaria. Dissolve ergo numerum hunc Logisticum in partes, contentas in Sexa-