

QUADRIVIUM

Assignment 7b:

Algorism IV

Due:

-Annandale- Thursday, March 14th

-Fishkill- Friday, March 29th

Pisan denari		Bologn. denari
		49
20		$\frac{1}{2}$ 24
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	*	
45		
$\frac{1}{4}$ 11		$\frac{16}{48}$ 13

Read and work on the following:	folios
Chuquet, Nicolas, Graham Flegg, Cynthia Hay, and Barbara Moss. <i>Nicolas Chuquet, Renaissance Mathematician</i> . -pp. 69-73 [Starting on p. 69 with "Of the rule of three..." Work out his examples using modern cross multiplication. He gives answers for most of them.	2
Fibonacci [Leonardo Pisano, Leonardo of Pisa (ca. 1170-ca. 1250)]. <i>Fibonacci's Liber Abaci</i> -p. 159. Just work out the first part of the problem on the top... the first 6 lines (ending with " $\frac{1}{4} \frac{6}{8}$ 13." It is an example of the "Rule of Three." Currency conversion. I put an enlarged image of the useful <i>marginalis</i> above. -pp. 438-439. Work out the problem "On a Tree with 100 Branches." Remember, it's not the number of birds, it is the total number of things.	1
Struik, Dirk Jan, ed. <i>A Source Book in Mathematics, 1200-1800</i> . Source Books in the History of the Sciences. Cambridge, Mass.,: Harvard University Press, 1969. -pp. 4-6: Recorde and equality	1
Newsome, Daniel. "A Symbol of Equality." (2017-18)	1
Suzuki, Jeff. <i>Mathematics in Historical Context</i> . Mathematical Association of America. 2009. -pp. 96-98: Decimal Notation	1
Katz, Victor J. ed. <i>Sourcebook in the Mathematics of Medieval Europe and North Africa</i> . Princeton University Press, 2016. Excerpts. -pp. 407-409: Al-Kishnawi on magic squares -pp. 554-559: Moschopoulos on magic squares	3