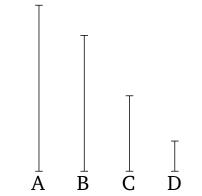
Book 7 Proposition 23

If two numbers are prime to one another then a number measuring one of them will be prime to the remaining (one).



Let A and B be two numbers (which are) prime to one another, and let some number C measure A. I say that C and B are also prime to one another.

For if C and B are not prime to one another then [some] number will measure C and B. Let it (so) measure (them), and let it be D. Since D measures C, and C measures A, D thus also measures A. And D also measures D. Thus, D measures D measure the number one another. Thus, some number does not measure the numbers D and D measure the numbers D measure the n