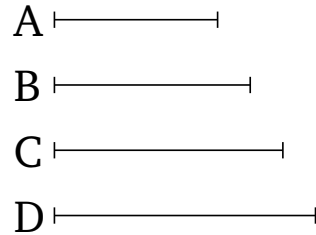# Book 8
Proposition 23

If four numbers are continuously proportional, and the first is cube, then the fourth will also be cube.

A ├──────┤

B ├──────┤

C ├──────┤

D ├──────┤

Let A, B, C, D be four continuously proportional numbers, and let A be cube. I say that D is also cube.

For since two numbers, B and C, are in mean proportion to A and D, A and D are thus similar solid numbers [Prop. 8.21]. And A (is) cube. Thus, D (is) also cube [Def. 7.21]. (Which is) the very thing it was required to show.