

SEQIN4

Means - Extremes Property With Algebra

product of the means = product of the extremes
(cross multiply)

$$\frac{a}{b} = \frac{c}{d}$$

** $ad = bc$ if the relationship is proportional**

cross products property - in a proportion, the cross products are =

EX: $\frac{c}{8} \rightarrow \frac{11}{4}$

$$\frac{4c}{4} = \frac{88}{4}$$

$$c = 22$$

EX: $\frac{2}{3} \rightarrow \frac{x+3}{12}$

$$\frac{2(x+3)}{3} = \frac{24}{3}$$

$$x+3 = 8$$

$$x = 5$$

EX: 3 is to 8 as x is to 56

$$\frac{3}{8} = \frac{x}{56}$$

$$8x = 168$$

$$x = 21$$

EX: $\frac{4a}{5} \rightarrow \frac{40}{25}$

$$\frac{100a}{100} = \frac{200}{100}$$

$$a = 2$$