Unit #6 Similarity of Figures

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10:06 AM

6.1 Similar Polygons

REVIEW : proportional reasoning

- a ratio is a comparison between 2 #'s measured in the same units
- expressed in 3 ways → fraction ex. $\frac{9}{16}$
  - in words ex. 9 to 16
  - a notation ex. 9:16

Simplifying fractions

$$\frac{150}{15} \overset{\div 15}{\underset{\div 15}{=}} \frac{10}{1} = 10$$

don't need to write the 1

* An equation showing equivalent ratios is called a proportion

* Cross multiply and Divide
  - ↳ find the unknown

ex. $\frac{x}{3} = \frac{2.1}{4}$

$4x = 3 \times 2.1$

$\frac{4x}{4} = \frac{6.3}{4}$

ex. $\frac{12}{1} = \frac{m}{3}$

$12 \times 3 = 1m$

$36 = m$

$x = 1.575$