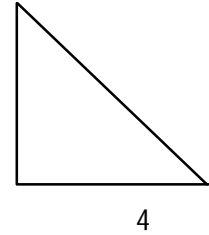
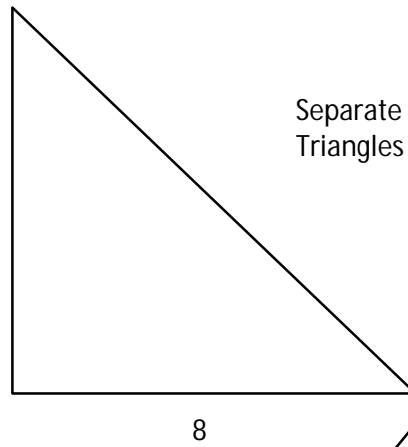
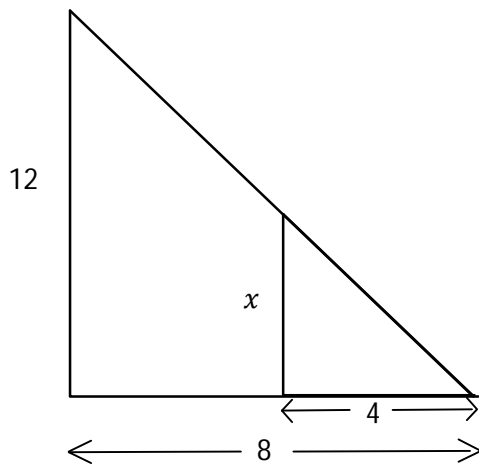


# M8 - 2.2 - Similar Shapes Notes



12: x  
8: 4  
Ratios

Variable on top!

× 1.5

$$\frac{x}{12} = \frac{4}{8}$$

× 1.5

Equal Fractions

$4 \times 1.5 = 6$

$x = 6$

$12 \div 8 = 1.5$

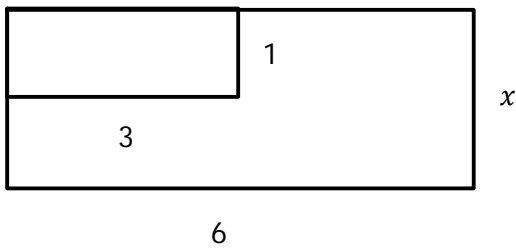
$\frac{BIGGER}{SMALLER} = \frac{bigger}{smaller}$

$$\frac{x}{12} = \frac{4}{8}$$

$$12 \times \frac{x}{12} = \frac{4}{8} \times 12$$

$x = 6$

Algebra



$6 \div 3 = 2$

$x = 2$

$\times 3 \quad \frac{1}{3} = \frac{x}{6} \quad \div 3$

$\frac{smaller}{bigger} = \frac{SMALLER}{BIGGER}$

$$\frac{6}{3} = \frac{x}{1}$$

$x = 2$

$\frac{BIGGER}{bigger} = \frac{SMALLER}{smaller}$