

Sect. 4.4  
Solving Proportions

$$\frac{3.3}{4.3} = \frac{9}{12}$$

A proportion is a statement that 2 ratios are =.

$$\frac{3}{4} = \frac{9}{12} \leftarrow \text{is a proportion}$$

In proportions, cross products are always =.

$$\frac{3}{4} = \frac{9}{12}$$

$$36 = 36$$

$$\frac{1}{5} = \frac{3}{15}$$

$$15 = 15$$

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$$\frac{x}{100} = \frac{25}{150}$$

can solve it by cross multiplying.

$$\frac{150x}{150} = \frac{2500}{150}$$

$$x = 16.\bar{6}$$

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$$\frac{k}{7} = \frac{32}{56}$$

$$\frac{56k}{56} = \frac{224}{56}$$

$$k = 4$$

~~$$\frac{k}{7} = \frac{32}{56}$$~~

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$$k = 4$$