2 - 8 Proportions and Scale Drawings

proportion: an equation stating that two ratios are equivalent

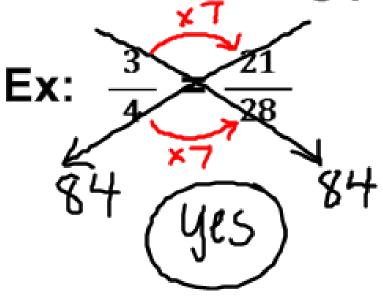
Written different ways:

$$\frac{1}{2} = \frac{3}{6}$$
 1:2 = 3:6

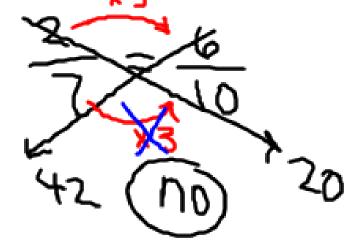
Cross Products

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

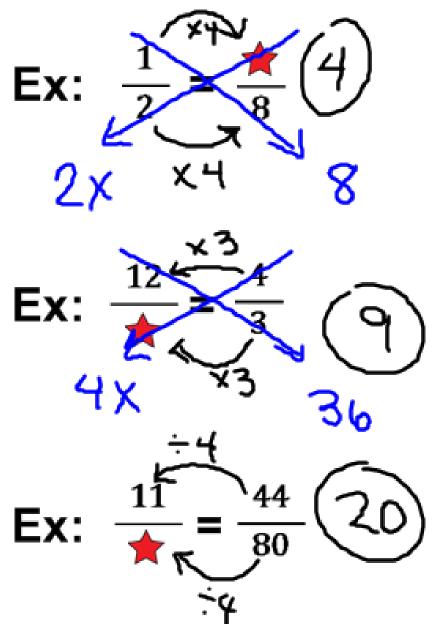
Are the following proportions?



Ex: 2:7 = 6:10



Complete the proportions.



Ex: The scale of a painting is 1 in : 3 ft. Find the drawing length that would be used to represent an actual length of 12 ft.

$$\frac{1 \text{ in}}{3 \text{ ft}} = \frac{x \text{ in}}{12 \text{ ft}}$$

$$\frac{1}{3 \text{ ft}} = \frac{x \text{ in}}{12 \text{ ft}}$$

$$\frac{3}{3} \times 12$$

$$12$$

$$12$$

In-Class / Homework:

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