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November 4, 2011

Friday so...No Warm-Up

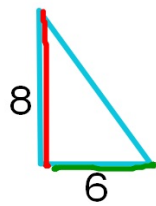
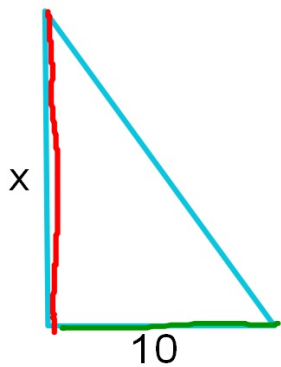
**BLUE** Worksheet due Monday

Get out your notes!

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## 11/04 - Shadow Problems using Proportion

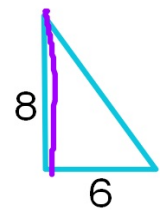
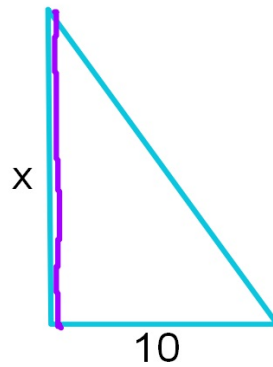
Review:



$$\frac{x}{10} = \frac{8}{6}$$

$$\frac{6x}{6} = \frac{80}{6}$$

$$x = 13.3$$



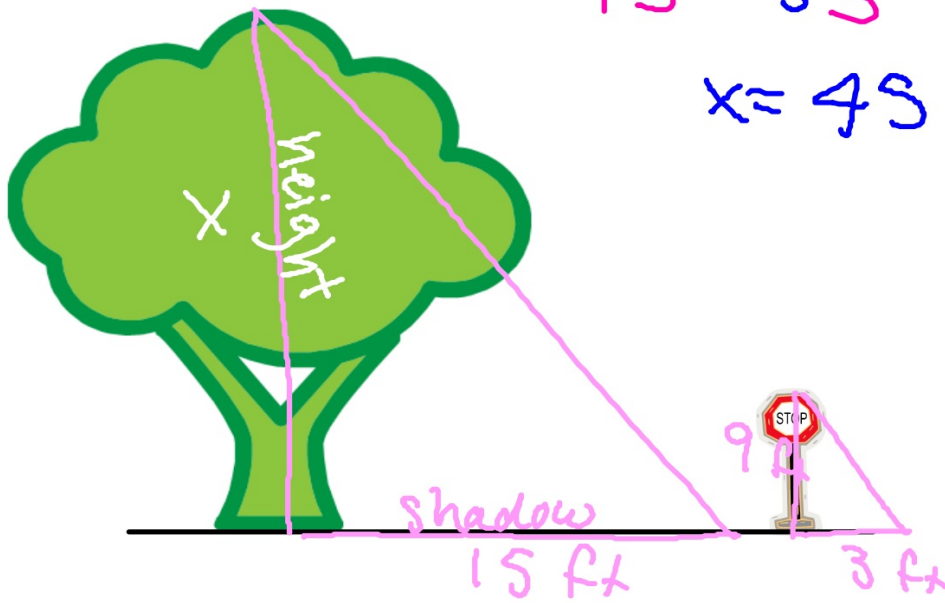
$$\frac{x}{10} = \frac{8}{6}$$

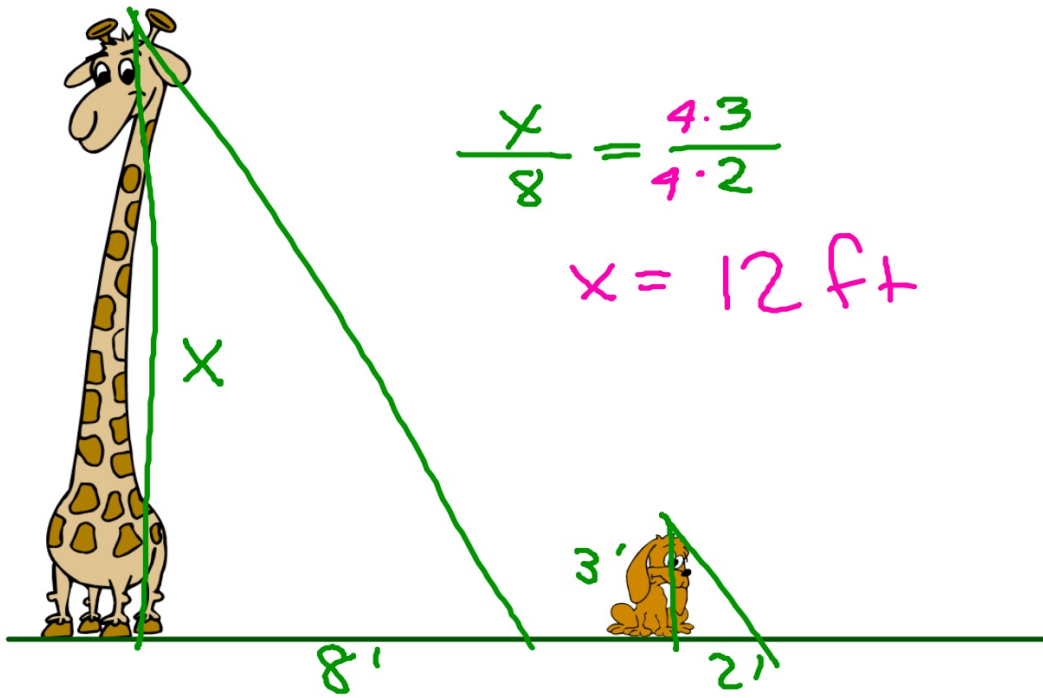


2  $\Delta$ 's formed are proportional

$$\frac{x}{15} = \frac{5.9}{5.3}$$

$$x = 49 \text{ ft}$$

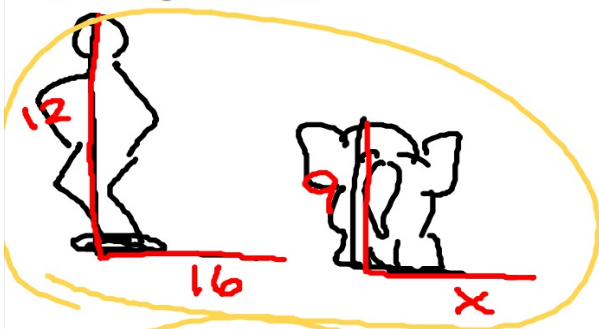




$$\frac{x}{8} = \frac{4.3}{4.2}$$

$$x = 12 \text{ ft}$$

If a 12 ft tall statue casts a 16 ft long shadow then how long is the shadow that a 9 ft tall adult elephant casts?



$$\frac{12}{16} = \frac{9}{x}$$

$$\frac{12x}{12} = \frac{144}{12}$$

$$x = 12 \text{ ft}$$

A bird bath that is 4 ft tall casts a shadow that is 8 ft long. Find the height of a woman that casts a 12 ft shadow.



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

$$x = 6 \text{ ft}$$

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# Homework

GREEN Worksheet due Tuesday

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