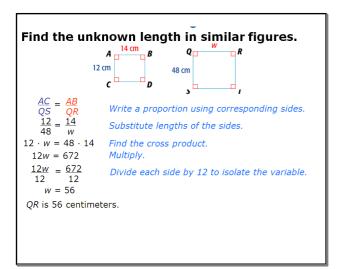
5-8 Using Similar Figures

p. 304 3-13-18

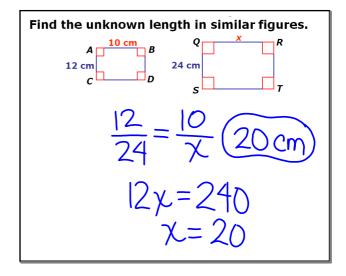
Mar 18-10:44 AM

<u>Indirect measurement</u> is a method of using proportions to find an unknown length or distance in similar figures.

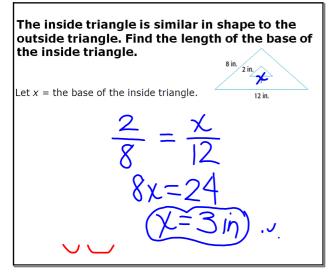
Mar 18-10:43 AM



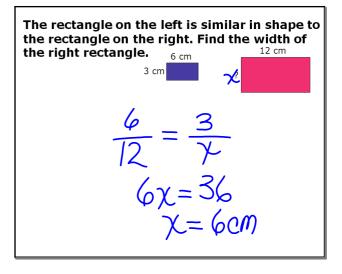
Mar 18-10:45 AM

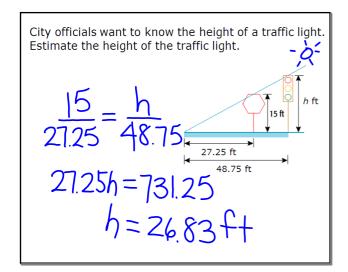


Mar 18-10:45 AM



Mar 18-10:45 AM Mar 18-10:45 AM





Mar 18-10:46 AM

The inside triangle is similar in shape to the outside triangle. Find the height of the outside triangle.

$$\frac{5}{14.75} = \frac{h}{30.25}$$

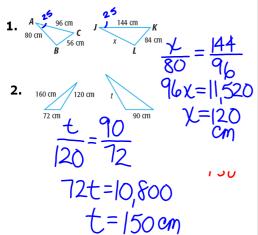
$$\frac{14.75h}{14.75h} = |5|.25$$

$$\frac{14.75h}{30.25 \text{ ft}}$$

$$h = 10.25 \text{ ft}$$

Mar 18-10:46 AM





Mar 18-10:47 AM

Find the unknown length in each pair of similar figures.

3. The width of the smaller rectangular cake is 5.75 in. The width of a larger rectangular cake is 9.25 in. Estimate the length of the larger rectangular cake.

Mar 18-10:49 AM