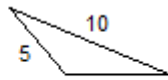
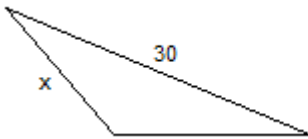


HOMEWORK 8-3
Similar Figures

Unit 8

There are TWO proportions that are set up INCORRECTLY. Which ones are set up incorrectly?

1.



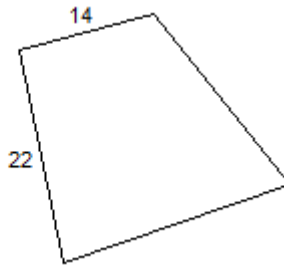
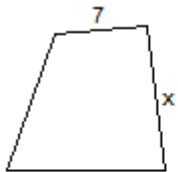
A. $\frac{x}{10} = \frac{30}{5}$

B. $\frac{x}{30} = \frac{10}{5}$

C. $\frac{30}{x} = \frac{10}{5}$

D. $\frac{x}{5} = \frac{30}{10}$

2.



A. $\frac{x}{7} = \frac{22}{14}$

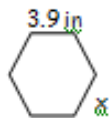
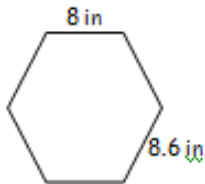
B. $\frac{x}{14} = \frac{7}{22}$

C. $\frac{7}{x} = \frac{22}{14}$

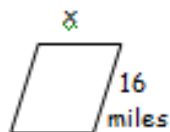
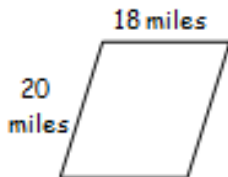
D. $\frac{7}{14} = \frac{x}{22}$

Find the length of the missing side of each similar shape. SHOW YOUR WORK.

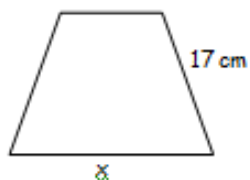
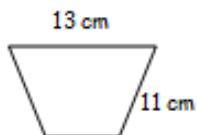
3.



4.

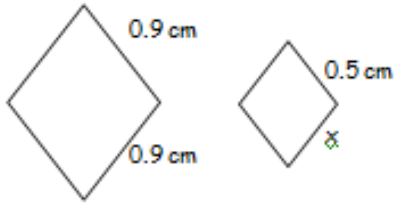


5.

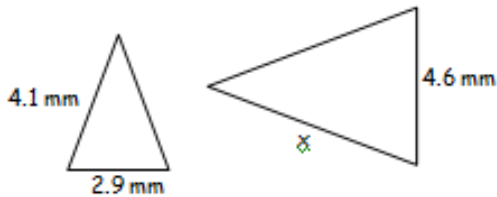


Find the length of the missing side of each similar shape. **SHOW YOUR WORK.**

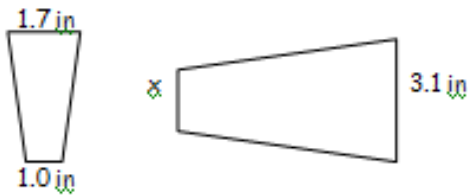
6.



7.

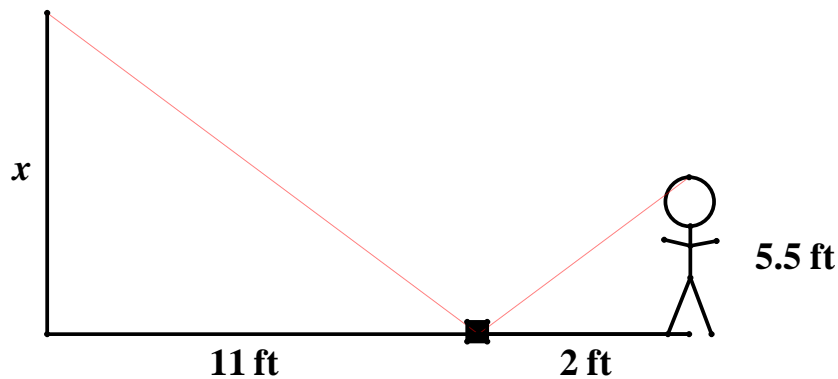


8.



Write the problem as a proportion and solve the ratio for the missing side. Round your answer to the nearest tenth.

9. Mary is standing next to the flag pole outside the school. She uses a mirror to help her calculate the height of the flag pole. Mary is 5.5 feet tall and she is standing 2 feet from the mirror. The mirror was placed 11 feet from the base of the flagpole. What is the height of the flagpole?



10. Identify a shape similar to:



A.



B.



C.

