

Similar Figures Worksheet
 Show All Work Where Necessary!

Name _____

You can use proportional relationships to find missing side lengths in similar figures

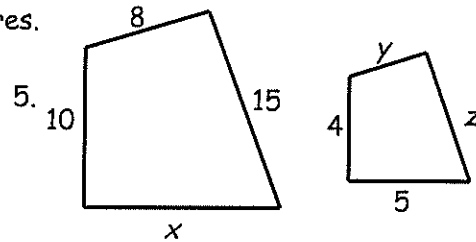
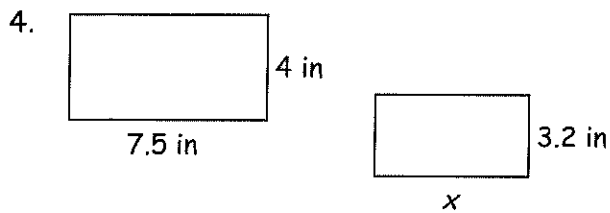
Solve each proportion.

1. $\frac{3}{8} = \frac{x}{24}$

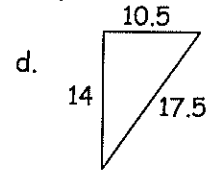
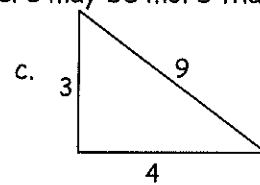
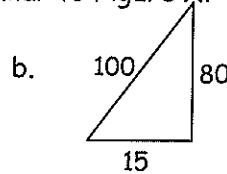
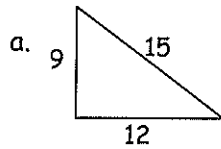
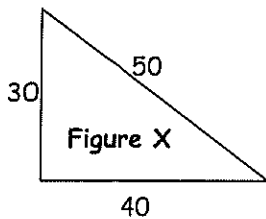
2. $\frac{5}{7} = \frac{25}{y}$

3. $\frac{5}{t} = \frac{t}{45}$

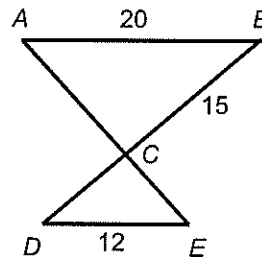
Find the indicated length for each pair of similar figures.



6. Which of the following figures are similar to Figure X? (there may be more than one)



7. In the diagram below, \overline{AB} is parallel to \overline{DE} . $AB = 20$ inches, $DE = 12$ inches, and $BC = 15$ inches. What is the length of \overline{DC} ?



- A. 25 in. C. 7 in.
 B. 9 in. D. 90 in.

8. A rectangle has a length of 4 feet and a perimeter of 14 feet. What is the perimeter of a similar rectangle with a width of 9 feet?

- A. 36 ft C. 42 ft
 B. 108 ft D. 126 ft