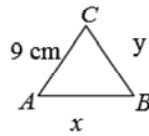
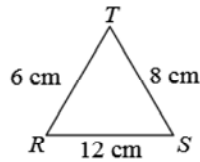


- If $\triangle XYZ \sim \triangle LMN$, then $\frac{YZ}{MN} = \frac{?}{LN}$.
- If $\triangle ABC \sim \triangle DEF$, then $\angle B \cong \angle$ _____
- $\triangle RST \sim \triangle ABC$. Find missing sides. Round answers to the nearest tenth, if necessary.

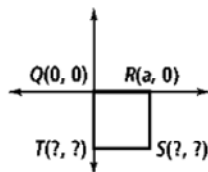


x =

y =

- Solve for the variable. Round answers to the nearest tenth, if necessary.
 - $\frac{4}{2z+6} = \frac{10}{7z-2}$
 - $\frac{x+6}{5} = \frac{5}{x-6}$

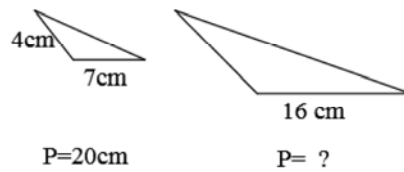
- The ratio of the sides of two similar rectangles is 5 to 8.
 - The ratio of their perimeters is _____.
 - The ratio of their areas is _____.
- Find the midsegment of a trapezoid if the bases are 13 in and 25 in.
- Use the properties of a square to find the missing coordinates.



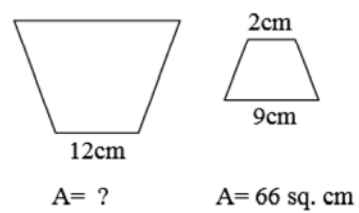
T (,) S (,)

8. Find the missing area or perimeter of the similar figures. Round to nearest tenth, if necessary.

a.

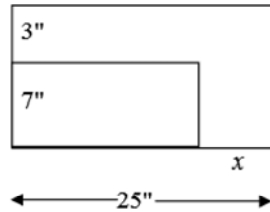


b.

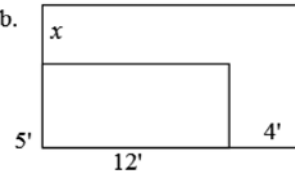


9. Given that the rectangles are similar, find x . Round to the nearest tenth, if necessary.

a.



b.



10. The sum of the measures of the interior angles of a 17-gon is _____.

11. The sum of the interior angles of a polygon is 4680 degrees. How many sides does it have?

12. Find the area of a rhombus with side 60 in and one diagonal 96 in.

13. Find the area of a rectangle with a side 9 ft and a diagonal 14 ft. Round to nearest tenth.

14. Quadrilateral $ABCD$ is a parallelogram. If adjacent angles are congruent, which statement must be true?

- A. Quadrilateral $ABCD$ is a square.
- B. Quadrilateral $ABCD$ is a rhombus.
- C. Quadrilateral $ABCD$ is a rectangle.
- D. Quadrilateral $ABCD$ is an isosceles trapezoid.