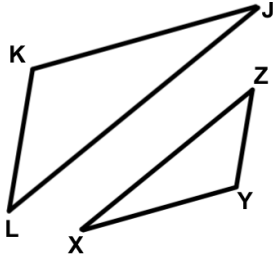


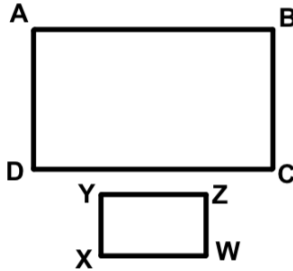
LEVEL: EMERGING

1) Given the similar triangles JKL and XYZ, identify the side that is proportional to \overline{JK} .



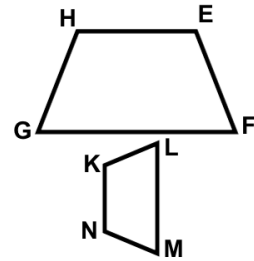
Answer: _____

2) Given the similar rectangles ABCD and WXYZ, identify the side that is proportional to \overline{ZW} .



Answer: _____

3) Given the similar trapezoids EFGH and KLMN, identify the side that is proportional to \overline{ML} .

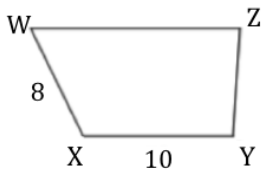
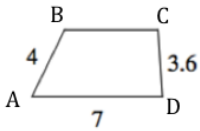


Answer: _____

LEVEL: PROFICIENT

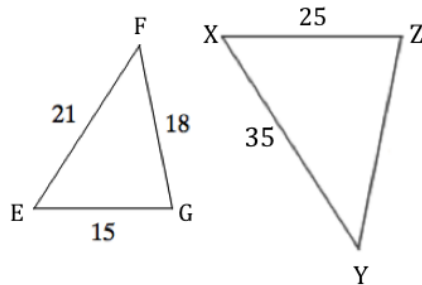
Directions: Given the similar shapes, find the indicated length.

4) $ABCD \sim WXYZ$



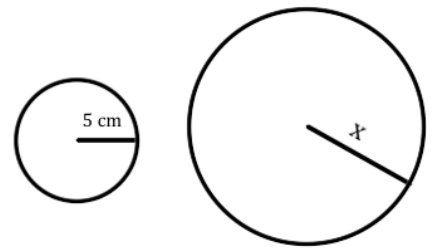
$\overline{WZ} = \underline{\hspace{2cm}}$

5) $EFG \sim XYZ$



$\overline{YZ} = \underline{\hspace{2cm}}$

6) Linear scale factor of circles is $\frac{5}{3}$.

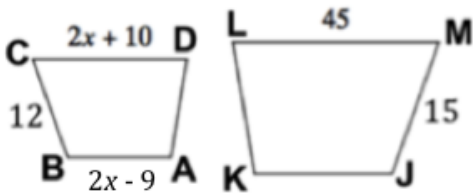


$x = \underline{\hspace{2cm}}$

LEVEL: MASTERY

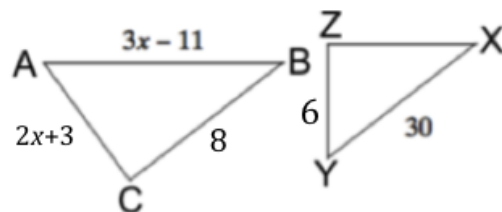
Directions: Given the similar shapes, find the indicated length.

7) $ABCD \sim JKLM$



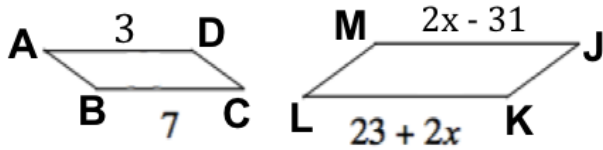
$\overline{AB} = \underline{\hspace{2cm}}$

8) $ABC \sim XYZ$



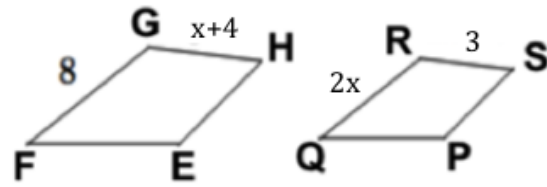
$\overline{AC} = \underline{\hspace{2cm}}$

9) $ABCD \sim JKLM$



$$\overline{LK} = \underline{\hspace{2cm}}$$

10) $EFGH \sim PQRS$



$$\overline{GH} = \underline{\hspace{2cm}}$$

11) A model house is 12 cm wide. If it was built with a scale of 3 cm: 4m, then how wide is the real house?

Answer:

12) A Ferris wheel casts a 20 meter-long shadow. A man 1.8 meters tall casts a 2.4-meter shadow. How tall is the Ferris wheel?

Answer:

13) A map has a scale of 3 cm: 18 km. If two cities are 54 km apart, then they are how far apart on the map?

Answer:

14) A 42.9 ft flagpole casts a 253.1 ft long shadow. About how long is the shadow of a 6.2 ft tall woman?

Answer: