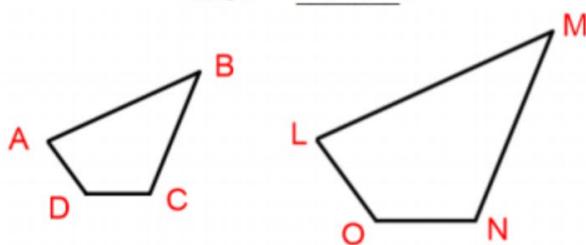


The following figures are similar. Fill in the blanks.

1.

$$ABCD \sim \underline{LMNO}$$



a.  $\angle L$  corresponds to  $\angle A$

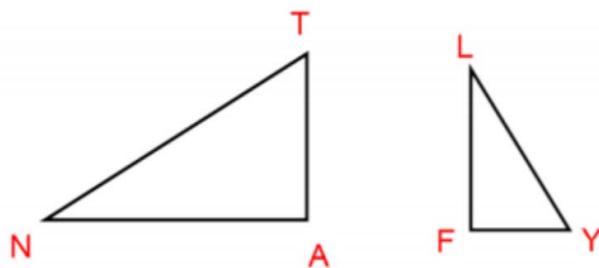
b.  $\overline{DC}$  corresponds to  $\overline{ON}$

c.  $\angle C$  corresponds to  $\angle N$

d.  $\overline{NM}$  corresponds to  $\overline{CB}$

2.

$$ANT \sim \underline{FLY}$$



a.  $\angle N$  corresponds to  $\angle L$

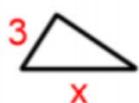
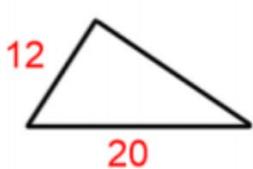
b.  $\overline{NA}$  corresponds to  $\overline{FL}$

c.  $\angle Y$  corresponds to  $\angle T$

d.  $\overline{FY}$  corresponds to  $\overline{AT}$

The following figures are similar. State the scale factor, set up a proportion, and find the missing side.

3.



$$\frac{12}{3} = \frac{20}{x}$$

$$\frac{12x}{12} = \frac{60}{12}$$

$x = 5$

$$\text{Scale Factor} = \frac{12}{3} \text{ or } \frac{3}{12} = \boxed{3 \text{ or } \frac{1}{4}}$$

4.



$$\frac{4}{16} = \frac{x}{8}$$

$$16x = 32$$

$x = 2$

$$\text{Scale Factor} = \frac{4}{16} \text{ or } \frac{16}{4} = \boxed{\frac{1}{4} \text{ or } 4}$$

5.



$$\frac{9}{4} = \frac{x}{2}$$

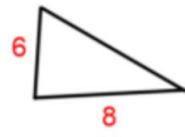
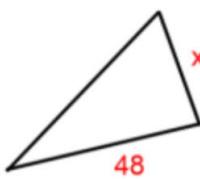
$$4x = 18$$

$$x = \frac{18}{4} = \frac{9}{2} \text{ or } 4.5$$

Scale Factor =

$$\boxed{\frac{9}{4} \text{ or } \frac{4}{9}}$$

6.

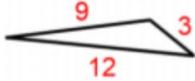
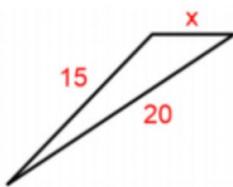


$$\frac{x}{6} = \frac{48}{8}$$

$$8x = 288$$

$$\boxed{x = 36}$$

7.



$$\frac{15}{9} = \frac{x}{3}$$

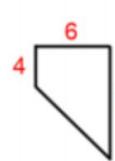
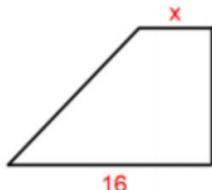
$$9x = 45$$

$$\boxed{x = 5}$$

Scale Factor =

$$\boxed{\frac{15}{9} \text{ or } \frac{9}{15} = \frac{5}{3} \text{ or } \frac{3}{5}}$$

8.



$$\frac{6}{10} = \frac{x}{4}$$

$$10x = 64$$

$$\boxed{x = 6.4}$$

Scale Factor =

$$\boxed{\frac{10}{16} \text{ or } \frac{16}{10} = \frac{5}{8} \text{ or } \frac{8}{5}}$$