



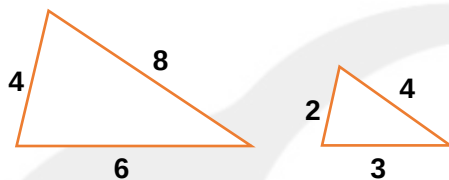
Triangle Similarity

Triangle Similarity

Triangles that are similar are related by a **scale factor** or a **ratio**. This ratio is the relationship between the sides of the two shapes.

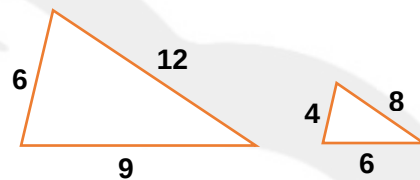
EXAMPLES:

Ratio of 2:1
Scale Factor = 2



$$SF = \frac{6}{3} \text{ or } \frac{8}{4} \text{ or } \frac{4}{2} = 2$$

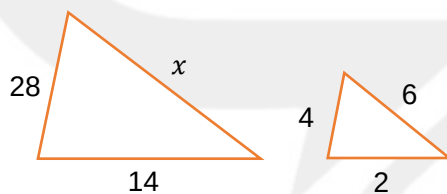
Ratio of 3:2
Scale Factor = 1.5



$$SF = \frac{9}{6} \text{ or } \frac{12}{8} \text{ or } \frac{6}{4} = 1.5$$

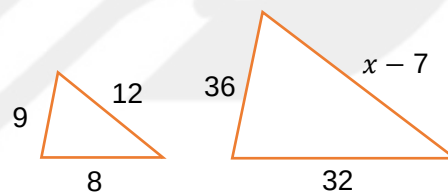
Instructions: Use the relationship of similar triangles to answer the questions below.

1



SF _____
 x _____

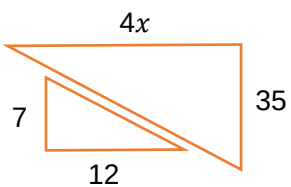
2



SF _____
 x _____



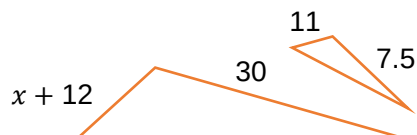
3



SF

x

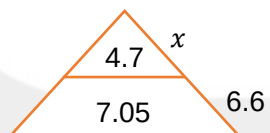
4



SF

x

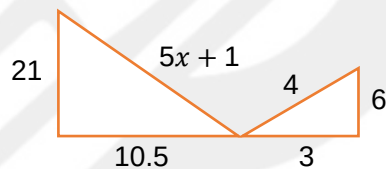
5



SF

x

6

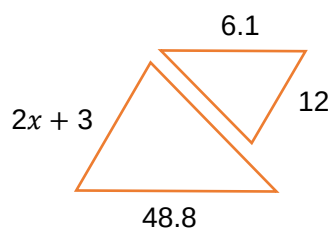


SF

x

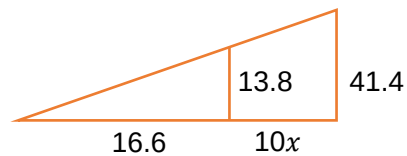


7



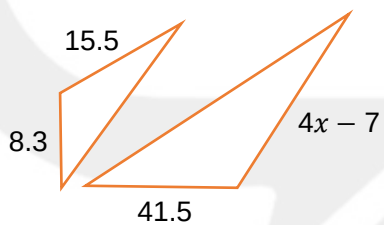
SF _____
 x _____

8



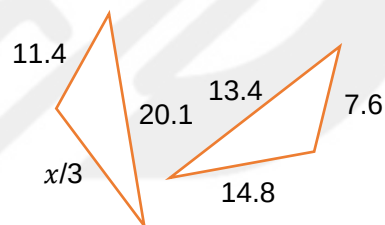
SF _____
 x _____

9



SF _____
 x _____

10



SF _____
 x _____