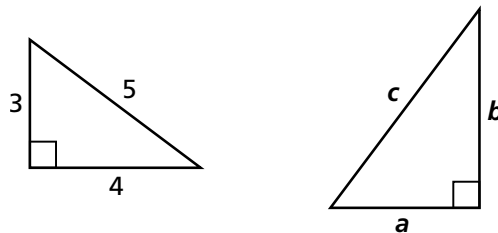




Dear Family,

In this unit, your child is introduced to similarity and scale. There are two main goals for this unit:

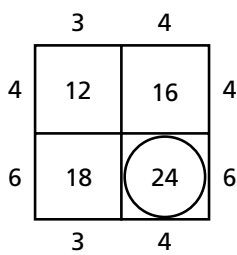
- Students will identify and draw similar figures, and use similarity to find a missing measurement.
 - One figure is similar to another if it has the same shape. It may be enlarged or reduced.
 - In similar figures, the measurements of corresponding angles are equal and the lengths of the sides share the same ratio.



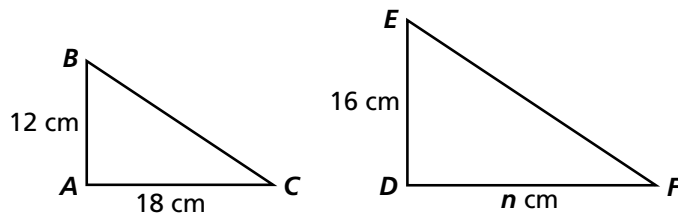
Similar Triangles

$$\frac{a}{3} = \frac{b}{4} = \frac{c}{5}$$

$$\frac{a}{b} = \frac{3}{4} \quad \frac{a}{c} = \frac{3}{5} \quad \frac{b}{c} = \frac{4}{5}$$



A Factor Puzzle can be used to find an unknown length in a similarity problem.



For these similar triangles, students can make and solve the Factor Puzzle shown in the margin to find that the unknown length is 24 cm.

- Students will analyze and interpret scale drawings, including maps, and make two-dimensional scale drawings.
 - In scale drawings and maps, the actual object and the drawing are similar.
 - The scale tells the relationship between the distances in the drawing or map and the actual distances. For example, $\frac{1}{4}$ inch = 100 miles means that every $\frac{1}{4}$ inch on the map represents 100 actual miles.

If you have any questions or comments, please call or write to me.

Sincerely,
Your child's teacher