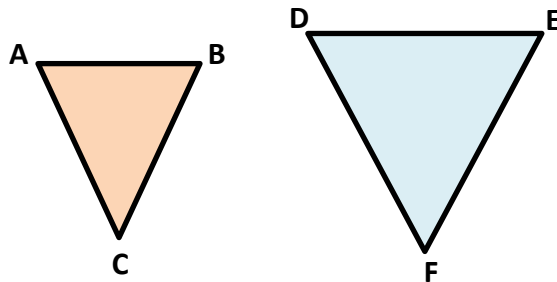


Proportions and Similar Figures Assignment

The figures given in each question are similar. Write the corresponding sides and angles.

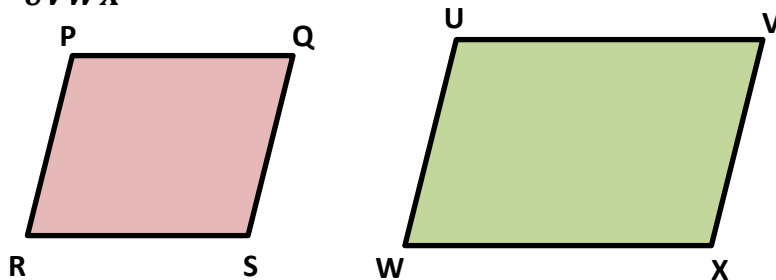
1. $\triangle ABC \sim \triangle DEF$



Corresponding

Corresponding Angles:

2. $PQRS \sim UVWX$

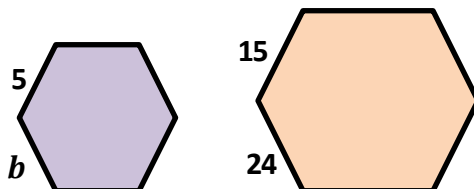


Corresponding Sides:

Corresponding Angles:

Find the missing length in each question below, if the given figures are similar.

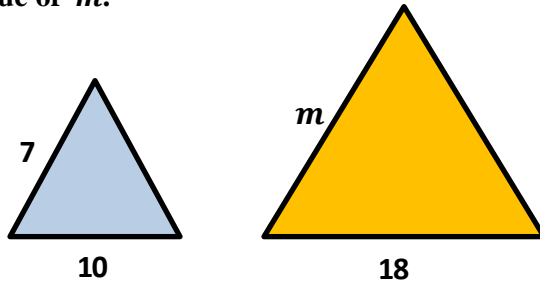
1. Find the value of b .



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

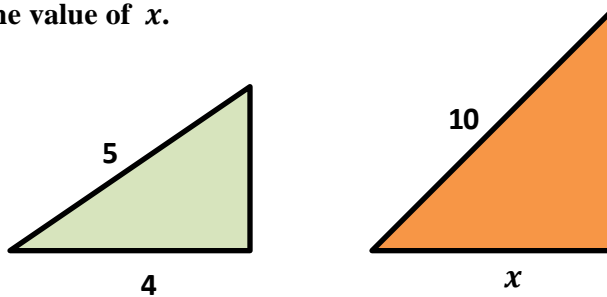
Proportions and Similar Figures Assignment

2. Find the value of m .



$m =$ _____

3. Find the value of x .



$x =$ _____

The scale of a map is 0.5 inches : 10 km. Find the actual distance corresponding to each map distance.

1. 4 inches

2. 6 inches

3. 10 inches

Name: _____ Period: _____ Date: _____

Proportions and Similar Figures Assignment

Alan is making a model building out of sticks. The scale of his building is 1 : 400. If the actual length of the building is 1320 ft., what is the length of the model?

Length = _____

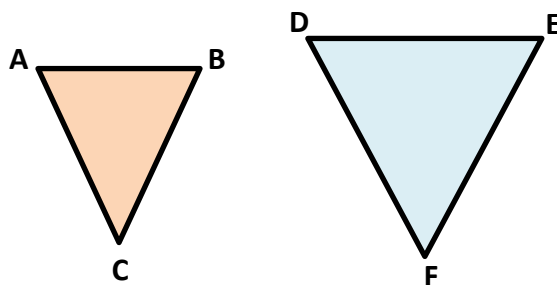
On a map, the length of a river is 4.75 km. What is the scale of the map if the actual length of the river is 247 km?

Scale = _____

The figures given in each question are similar. Write the corresponding sides and angles.

Proportions and Similar Figures Assignment

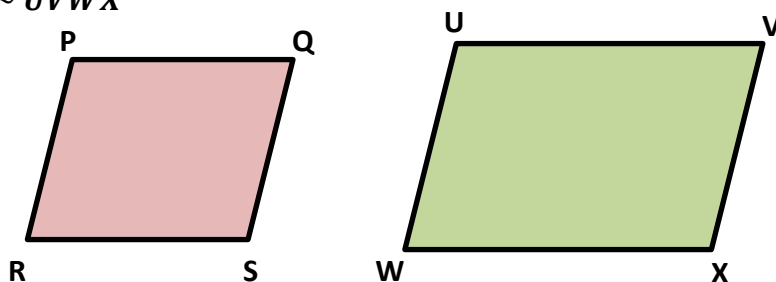
1. $\triangle ABC \sim \triangle DEF$



Corresponding Sides: AB and DE, AC and DF, BC and EF

Corresponding Angles: A and D, B and E, C and F

2. $PQRS \sim UVWX$

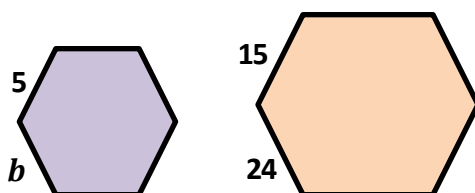


Corresponding Sides: PQ and UV, PR and UW, RS and WX, QS and VX

Corresponding Angles: P and U, Q and V, R and W, S and X

Find the missing length in each question below, if the given figures are similar.

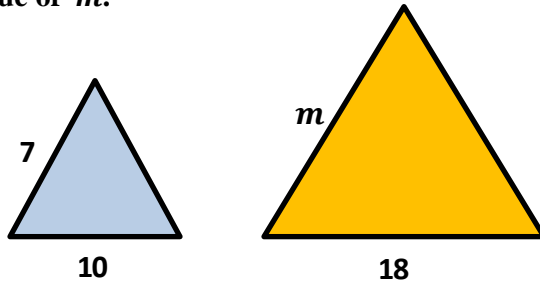
1. Find the value of b .



$b = \underline{\quad 8 \quad}$

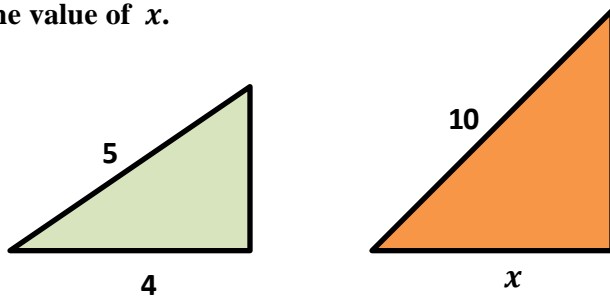
Proportions and Similar Figures Assignment

2. Find the value of m .



$m = \underline{12.6}$

3. Find the value of x .



$x = \underline{8}$

The scale of a map is 0.5 inches : 10 km. Find the actual distance corresponding to each map distance.

1. 4 inches

$\underline{80 \text{ km}}$

2. 6 inches

$\underline{120 \text{ km}}$

3. 10 inches

$\underline{200 \text{ km}}$

Name: _____ Period: _____ Date: _____

Proportions and Similar Figures Assignment

Alan is making a model building out of sticks. The scale of his building is 1 : 400. If the actual length of the building is 1320 ft., what is the length of the model?

Length = ____ 3.3 ft. ____

On a map, the length of a river is 4.75 km. What is the scale of the map if the actual length of the river is 247 km?

Scale = ____ 1 inch : 52 km ____