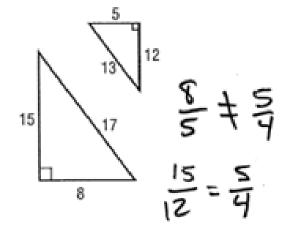
# Get out your homework and have it ready to check. Quiz tomorrow!

## Classwork - Quiz Review

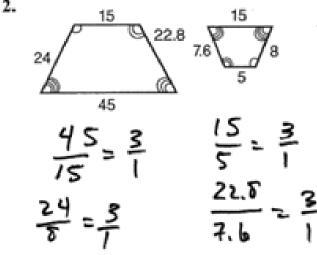
Determine whether each pair of polygons is similar. Explain.

1.



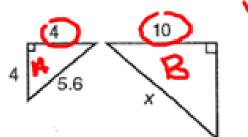
Similar? No

Explanation: Corresponding side don't have the same ratio.



Similar? Yes

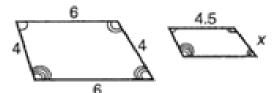
Explanation: Corresponding angles are congruent and corresponding sides all have the same ratio.

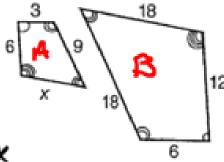


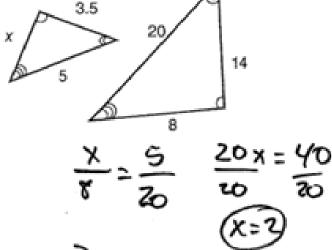
# A B

$$x = 14$$

## 5.

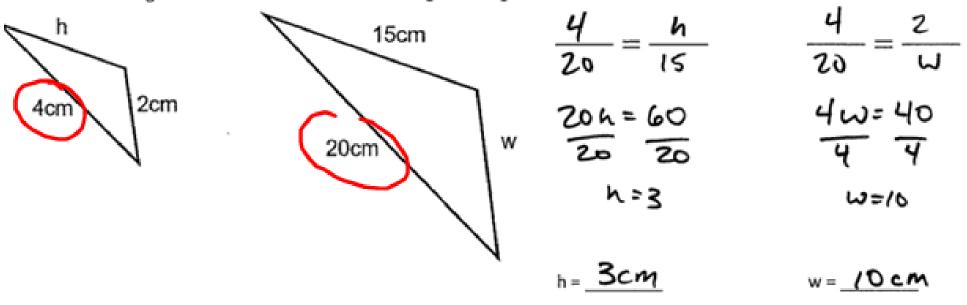




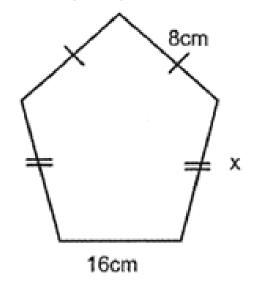


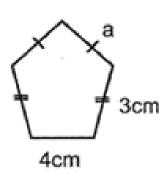
7. TILES A blue rectangular tile and a red rectangular tile are similar. The blue tile has a length of 10 inches and a perimeter of 30 inches. The red tile has a length of 6 inches. What is the perimeter of the red tile?

8. The triangles are similar. Solve for the missing side lengths. SHOW WORK AND LABEL



9. The pentagons are similar. Solve for the missing side lengths. SHOW WORK AND LABEL





$$\frac{16}{4} = \frac{\times}{3}$$

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

old side  $\cdot$  scale factor = new side

Scale Factor Ratio Comparing Corresponding Sides  $\rightarrow$ 

New Old

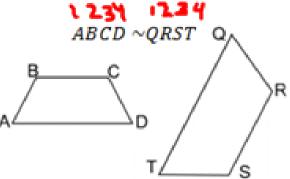
- 1) Quadrilateral ABCD is similar to Quadrilateral QRST.
- A) State the names of the corresponding angles.



∠B corresponds to ∠\_\_\_\_

∠C corresponds to ∠\_\_\_\_

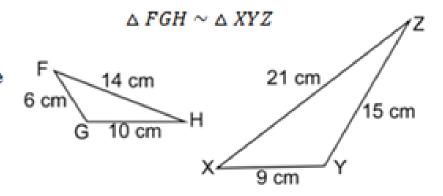
∠D corresponds to ∠\_\_\_\_



B) State the names of the corresponding Sides.

Side AB	corresponds	with	Side	
---------	-------------	------	------	--

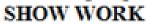
- 2) Triangle FGH is similar to Triangle XYZ.
- A) Find the scale factor going from  $\triangle FGH$  to  $\triangle XYZ$ . Show that every pair of corresponding sides has the same simplified scale factor. Not just one!

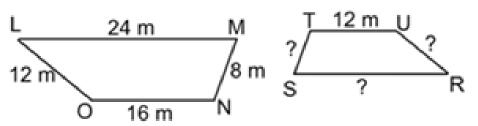


B) What would the scale factor be going from  $\triangle XYZ$  to  $\triangle FGH$ . Hint  $\rightarrow$  The new and old are different.

- 3) Use the similar figures to the right to answer the following problem.
- A) Find the scale factor going from LMNO to RSTU.

LMNO ~RSTU

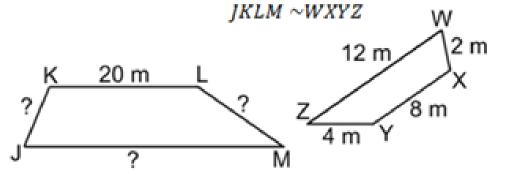




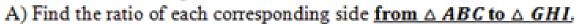
B) Use the scale factor to find all the missing sides on the new figure. SHOW WORK RS =\_\_\_\_\_\_\_ ST =\_\_\_\_\_\_

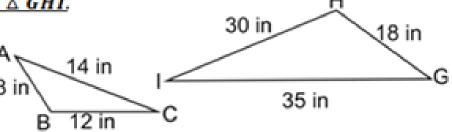
$$RU = \underline{\hspace{1cm}}$$

- 4) Use the similar figures to the right to answer the following problem.
- A) Find the scale factor going from WXYZ to JKLM.
  SHOW WORK



5) Determine if the figures are similar or not.

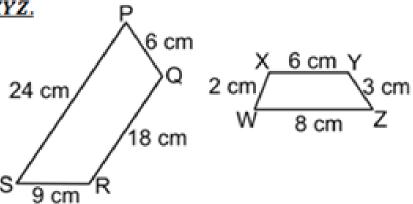




B) Are the two figures similar? If yes, what is the scale factor? If no, explain why they are not similar.

Scale Factor = \_\_\_\_

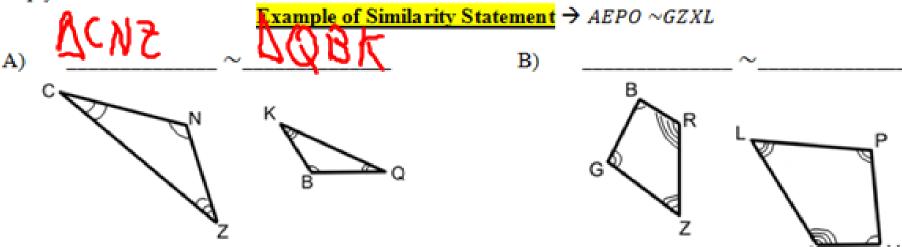
- 6) Determine if the figures are similar or not.
- A) Find the ratio of each corresponding side from PQRS to WXYZ.



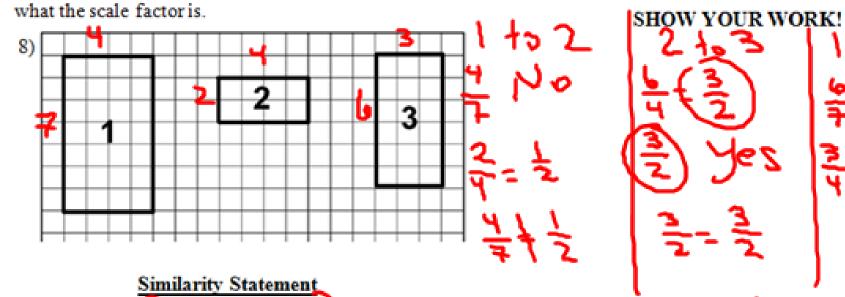
B) Are the two figures similar? If yes, what is the scale factor? If no, explain why they are not similar.

Scale Factor = \_\_\_\_

7) Write the similarity statements for the following similar figures. Redraw the figures in the same orientation to help you write the statement.



Two of the following three figures are similar to one another. Determine which two figures are similar and



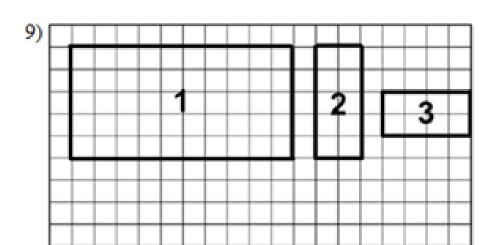
 $\sim$  Figure  $\_$ 

Figure \_

A)

B) Scale factor going from Figure \_\_\_\_\_\_ to Figure \_\_\_\_\_\_

3 & Figure 5



#### SHOW YOUR WORK!

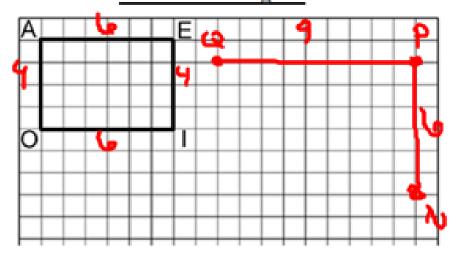
### Similarity Statement

- A) Figure \_\_\_\_\_ ~ Figure \_\_\_\_\_
- B) Scale factor going from Figure \_\_\_\_\_ to Figure \_\_\_\_\_
- C) Scale Factor = \_\_\_\_\_

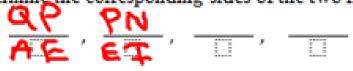
10) Rectangle AEIO is enlarged by a scale factor to  $\frac{3}{2}$  (3 to 2) to make the new figure of Rectangle QPNR.

Use the scale factor given to draw the new figure.

Label the new figure.



A) Determine the corresponding sides of the two figures.



B) Find how many units long each of the new sides will be using the corresponding sides. Show work!



Side 
$$QP = \frac{9}{}$$
 Side  $PN = \frac{6}{}$ 

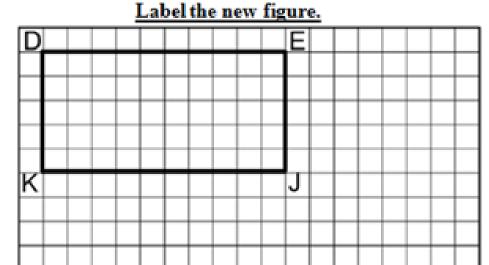
$$Side NR =$$
  $Side QR =$ 

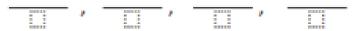
11) Rectangle DEJK is enlarged by a scale factor to  $\frac{1}{5}$  (1 to 5) to make the new figure of Rectangle AXWH.

Use the scale factor given to draw the new figure.

re. A) Deter

A) Determine the corresponding sides of the two figures.





B) Find how many units long each of the new sides will be, using the corresponding sides. Show work!

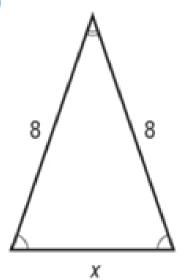
$$Side AX =$$
  $Side XW =$ 

$$Side WH =$$
  $Side AH =$ 

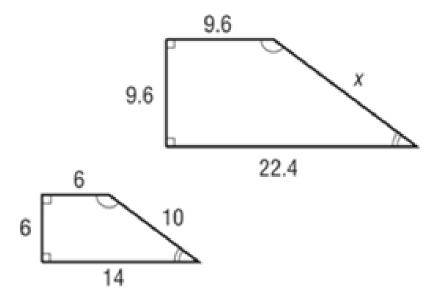
12) Each pair of polygons is similar. Find each missing side measure. SHOW WORK

2.6

A)



B)



x = \_\_\_\_\_

x =