

**Geometry**

**Unit 2: Assessment Review (HW7.5)**

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

1. Which of the following scale factors is a reduction (image : pre-image)?

- A) 7 : 6                      B) 0.95 : 1                      C) 10 : 1                      D) 5.05 : 5

2. Which of the following dilation value is an enlargement?

- A) 0.5                      B) -0.77                      C) -5                      D) 0.66

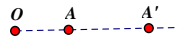
3. Given  $D_{O,2}P(x, y) = P'(-4, 10)$  then  $P(x, y)$  is

- A)  $P(-8, 20)$                       B)  $P(-2, 5)$                       C)  $P(-4, 12)$                       D)  $P(0, 20)$

4. If -3 is a scale factor of a dilation, then it would be a reduction.

T or F

5.  $D_{O,k}(A) = A'$  such that  $OA = 2$  cm and  $AA' = 4$  cm, then  $k$  is 3.



T or F

6. Determine the point.



- a)  $D_{H, \frac{5}{4}}(F) = (\text{_____})$                       b)  $D_{E, 2}(\text{_____}) = (D)$                       c)  $D_{C, 3}(\text{_____}) = (H)$

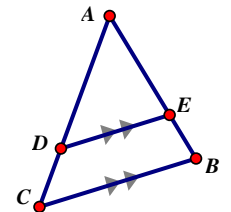
7. The ratio of two complementary angles is 13:5. Find the measure of the bigger angle.

8. Using the diagram to the right, write a similarity statement and give a similarity shortcut reason. Then, circle whether each given proportion below is correctly or incorrectly set up. No matter which answer you circle, provide a reason for why in the blank provided.

a)  $\triangle ADE \sim \text{_____}$                       Similarity Shortcut: \_\_\_\_\_

b)  $\frac{AC}{AD} = \frac{AB}{AE}$     CORRECT    INCORRECT

c)  $\frac{DE}{CB} = \frac{AD}{DC}$     CORRECT    INCORRECT



Why? \_\_\_\_\_

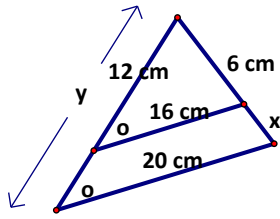
Why? \_\_\_\_\_

\_\_\_\_\_

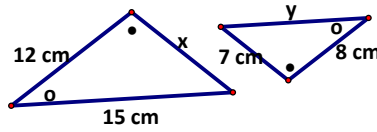
\_\_\_\_\_

9. Solve for the missing information, given that the two triangles in each question are SIMILAR. (2 decimals)

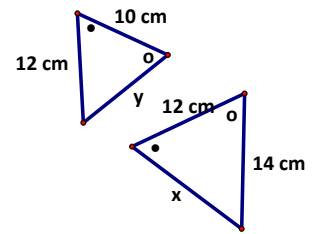
a)



b)



c)



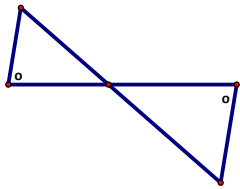
$x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_

$x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_

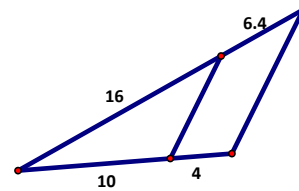
$x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_

16. Which of the following would be the criterion for establishing similarity in each pair of triangles? If there isn't enough information to prove they are similar, state **NOT ENOUGH INFO**.

a)



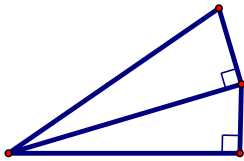
b)



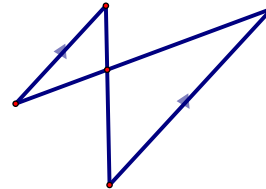
Similarity Shortcut: \_\_\_\_\_

Similarity Shortcut: \_\_\_\_\_

c)



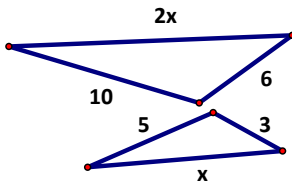
d)



Similarity Shortcut: \_\_\_\_\_

Similarity Shortcut: \_\_\_\_\_

e)



Similarity Shortcut: \_\_\_\_\_