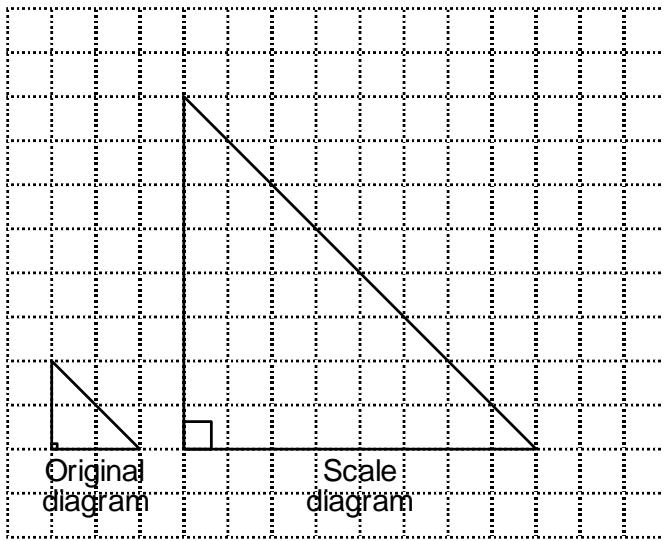


Unit test Review: Ch. 7- Similarities and Transformations (TASK 1 & 2) Name: _____

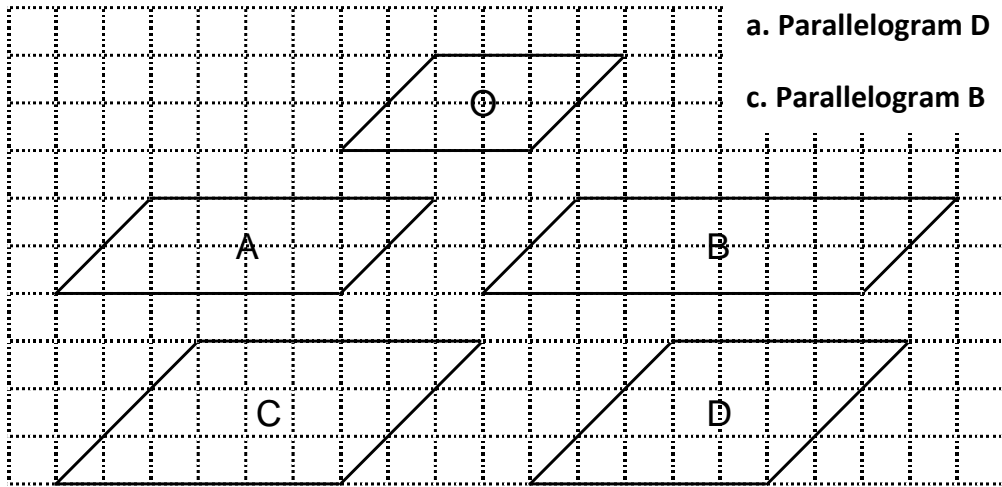
Multiple Choice: Identify the choice that best completes the statement or answers the question

_____ 1. Determine the scale factor for this scale diagram.



- a. 32 b. 8 c. 4 d. $\frac{1}{4}$

_____ 2. Which of parallelograms A, B, C, and D are scale diagrams of parallelogram O?

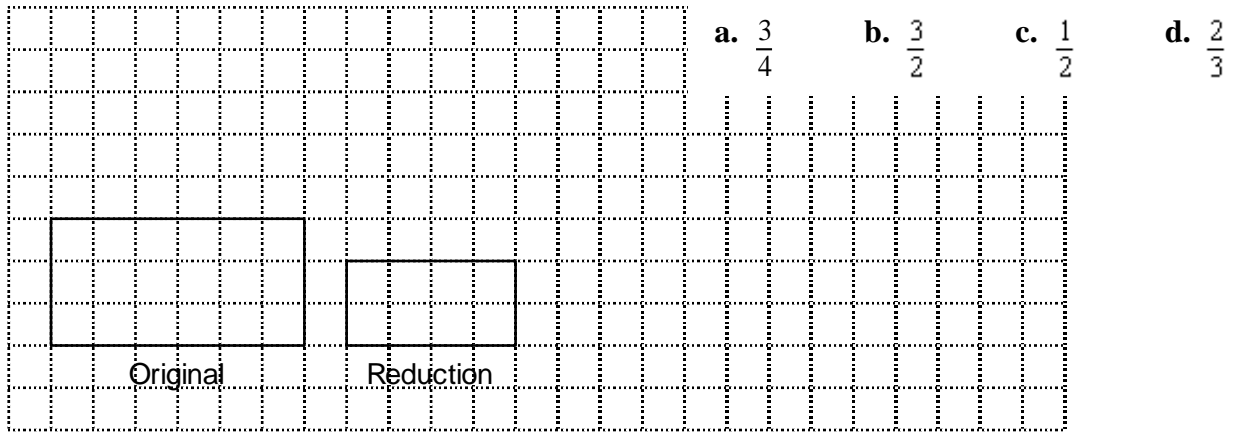


- a. Parallelogram D b. Parallelogram C
c. Parallelogram B d. Parallelogram A

_____ 3. A square has side length 13.6 cm. The side length of the reduction is 3.4 cm. Determine the scale factor.

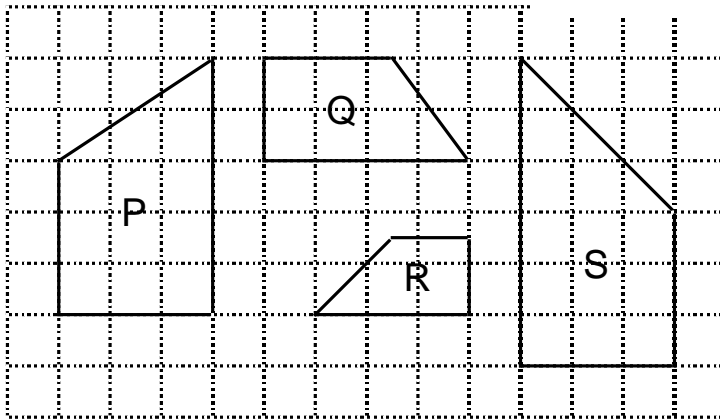
- a. $\frac{5}{51}$ b. $\frac{51}{5}$ c. $\frac{1}{4}$ d. 4

___ 4. Determine the scale factor for this reduction.



___ 5. Which two polygons have pairs of corresponding lengths that are proportional?

- a. R and S b. P and S c. Q and R d. P and Q



___ 6. A soccer pitch is about 110 m (**1 m = 100 cm**) long. A model of the soccer pitch is made using a scale of 1:70. Determine the length of the model to the nearest centimetre.

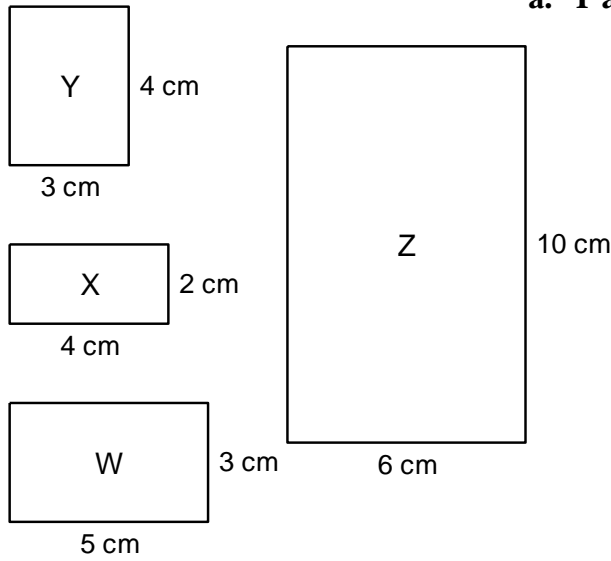
- a. 1571 cm b. 2 cm c. 16 cm d. 157 cm

___ 7. Calculate the value of y in this proportion: $\frac{y}{7.2} = \frac{6}{12}$

- a. 3.6 b. 1.1 c. 31.2 d. 1.2

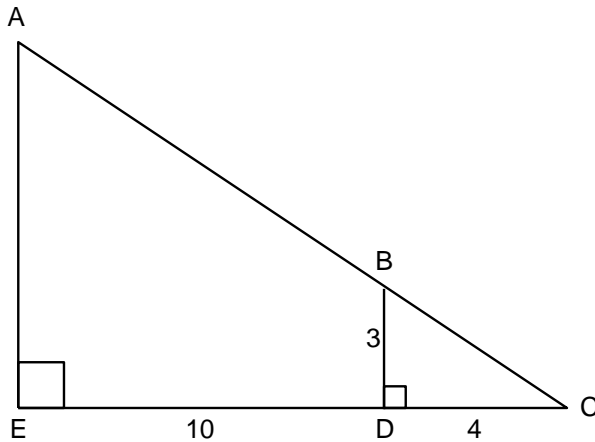
___ 8. Identify similar rectangles.

- a. Y and W b. Y and Z c. W and Z d. X and Z

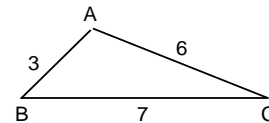
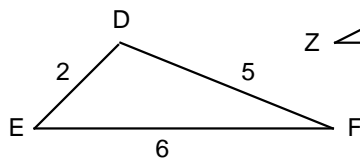
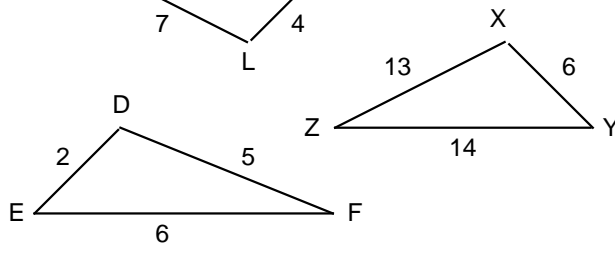
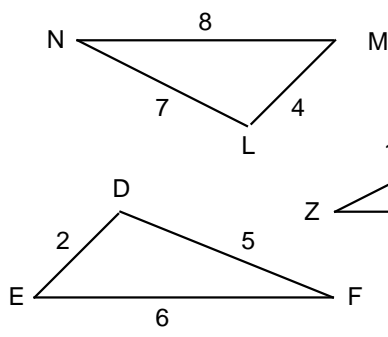
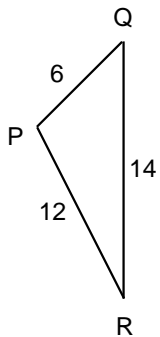


___ 9. Determine the length of AE in this pair of similar triangles.

- a. 3.3 b. 10.5 c. 7.5 d. 4.3



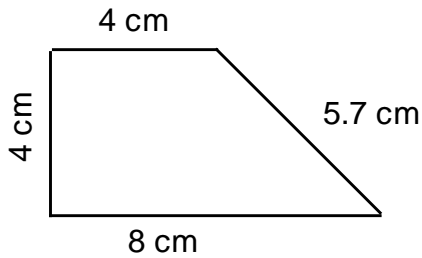
___ 13. Which triangle is similar to $\triangle ABC$?



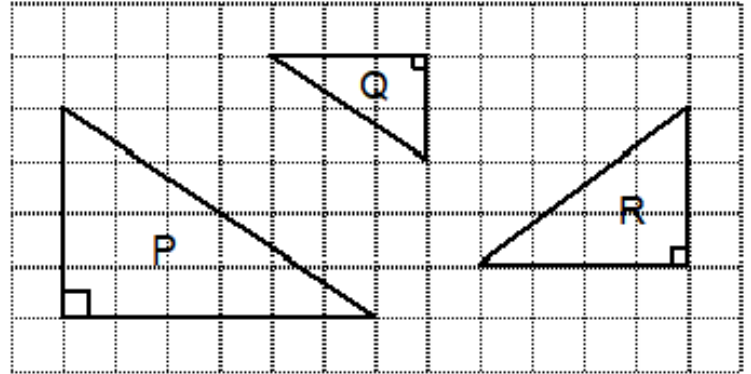
- a. $\triangle XYZ$
 b. $\triangle LMN$
 c. $\triangle DEF$
 d. $\triangle PQR$

Short Answer: Show all work in the space provided to receive full marks!

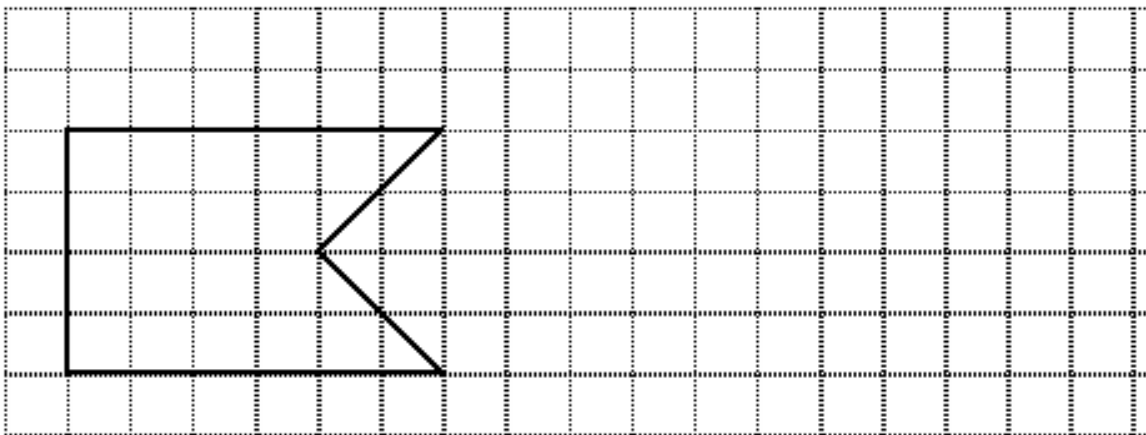
14. An enlargement of the shape below is made using a scale factor of 2. Determine the side lengths of the enlargement.



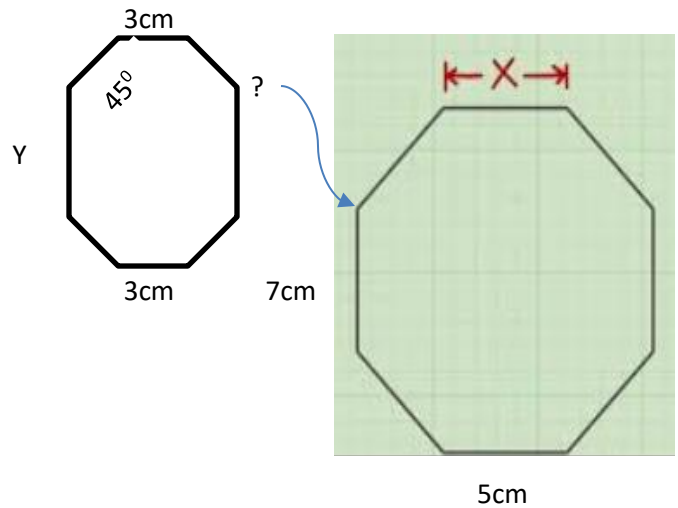
15. Which two triangles have pairs of corresponding lengths that are proportional? Identify the scale factor for the reduction.



17. Draw a reduction of this pentagon using a scale factor of 0.75



18. The octagons to the right are similar. Determine the unknown angle and the side lengths x & y :



Unit test Review: Similarities and Transformations TASK 1 & 2-2014
MULTIPLE CHOICE

Answer Section

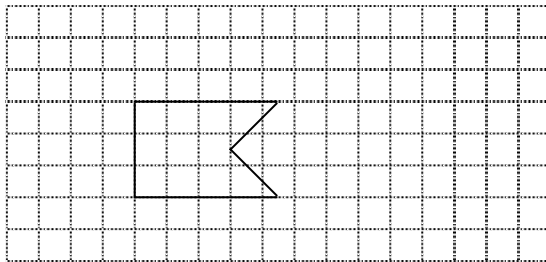
1. ANS: C
2. ANS: B
3. ANS: C
4. ANS: D
5. ANS: A
6. ANS: D
7. ANS: A
8. ANS: C
9. ANS: B
10. ANS:
11. ANS:
12. ANS:
13. ANS: D

SHORT ANSWER

14. ANS:
8 cm, 8 cm, 11.4 cm, and 16 cm

15. ANS:
Triangle Q is a reduction of triangle P; the scale factor for the reduction is $\frac{1}{2}$.

16. ANS:
17. ANS:



18. ANS:
 $? = 45^\circ$ X = 5cm & Y = 4.2 cm