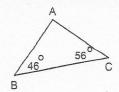
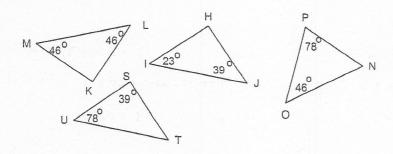
Grade 9 Chapter 7.1-7.4 Quiz - Version 3

Multiple Choice

Identify the choice that best completes the statement or answers the question.

Which triangle is similar to ΔABC?

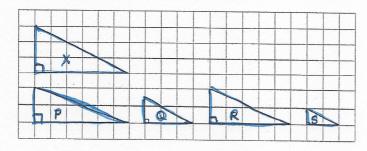




- a. ΔHIJ
- b. ASTU
- c. APON
- d. ΔKLM
- 2. A square frame is projected onto a screen using an overhead projector. The original square frame has side length 8.5 cm.

 The square frame is enlarged by a scale factor of 6.2.

 Determine the side length of the square frame on the screen.
 - a. 14.7 cm
- b. 52.7 cm
- c. 105.4 cm
- d. 210.8 cm
- 3. Which of triangles P, Q, R, and S are reductions of triangle X?



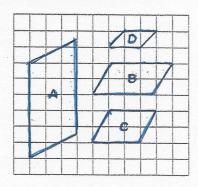
- a. Triangles P, Q, and S
- b. Triangles Q and S

- c. Triangles P and Q
- d. Triangles P, Q, and R

- 4. A circle has diameter 56 cm. The diameter of the reduction is 7 cm. Determine the scale factor.
 - 1 8

- d. 49

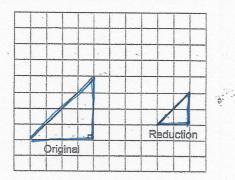
5. Identify similar parallelograms.



- All of the above b. A and B
- c. A and D
- d. D and B
- 6. When the shadow of a flagpole is 31.2 m long, a 1.6-m fencepost casts a shadow 2.6 m long. How tall is the flagpole?
 - a. 50.7 m
- b. 12.6 m
- c. 19.2 m
- d. 19.2 m
- 7. Calculate the value of x in this proportion: $\frac{x}{4.5} = \frac{13.5}{18}$
 - a. 3.375
- b. 0.6

d. 0.75

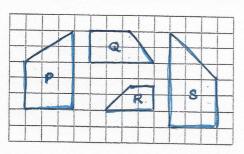
8. Determine the scale factor for this reduction.



- a.

- d. 4

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

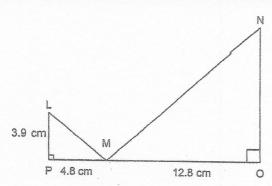


- a. R and S
- b. Pand S
- c. Q and R
- d. P and Q
- 10. A square has side length 13.6 cm. The side length of the reduction is 3.4 cm.

 Determine the scale factor.
 - a. $\frac{5}{51}$
- b. $\frac{51}{5}$
- c. $\frac{1}{4}$
- d. 4

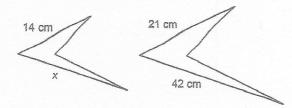
Short Answer

11. Determine the length of NO in these similar triangles.

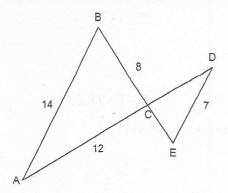


- 12. Rectangle ABCD is similar to rectangle PQRS.

 If AB = 7.2 cm, BC = 5.7 cm, and PQ = 4.8 cm, determine the length of QR.
- 13. These quadrilaterals are similar. Determine the value of x.



- 14. A rectangular garden measures 15 m by 9 m. A similar rectangular garden is 7.5 m long. Calculate the width of the garden.
- 15. Determine the lengths of CD and CE in these similar triangles.



Problem

- 16. These three rectangles are similar.
 - a) Determine the values of x and y.
 - b) If you draw another similar rectangle with width 70.4 cm. What is its length?

