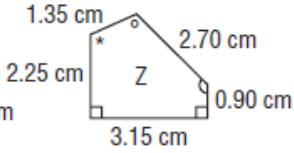
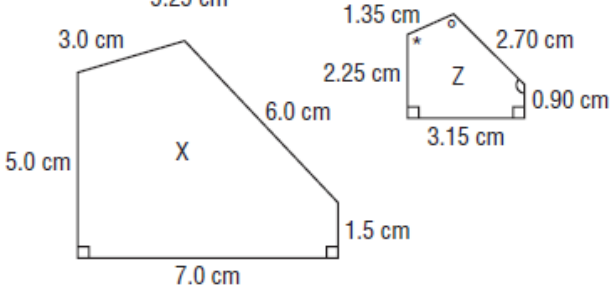
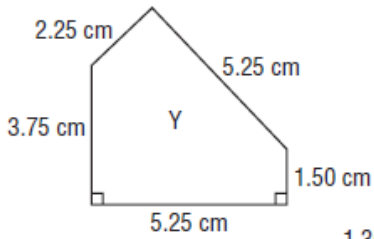
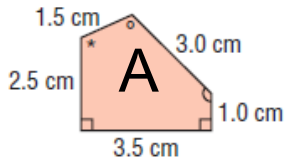


6. Which pentagon is similar to the red pentagon? Justify your answer.

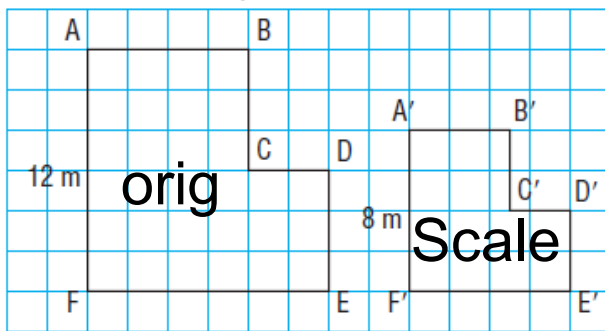
A-X

A-Z

A- Y



7. These two courtyards are similar.



Determine each length.

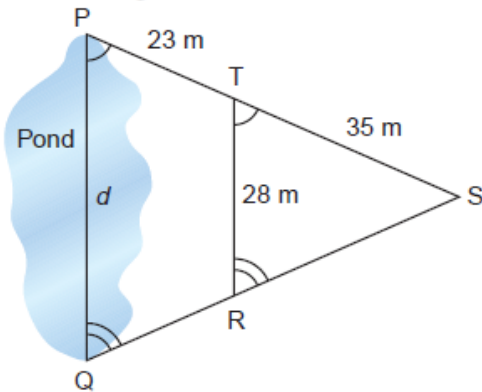
7.5

- a) BC
- b) B'C'
- c) A'B'

These shapes are similar

7.4

9. To determine the distance, d , across a pond, Ari uses this diagram. What is the distance across the pond?

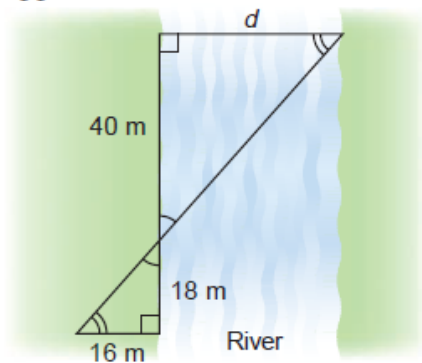


Prove Similarity

State Ratio's

Solve

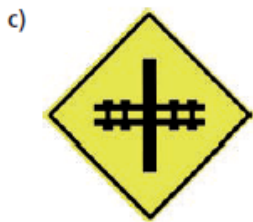
10. This scale diagram shows a surveyor's measurements taken to determine the distance across a river. What is the approximate distance across the river?



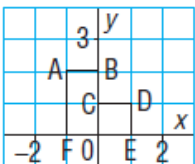
State Ratio's

Solve

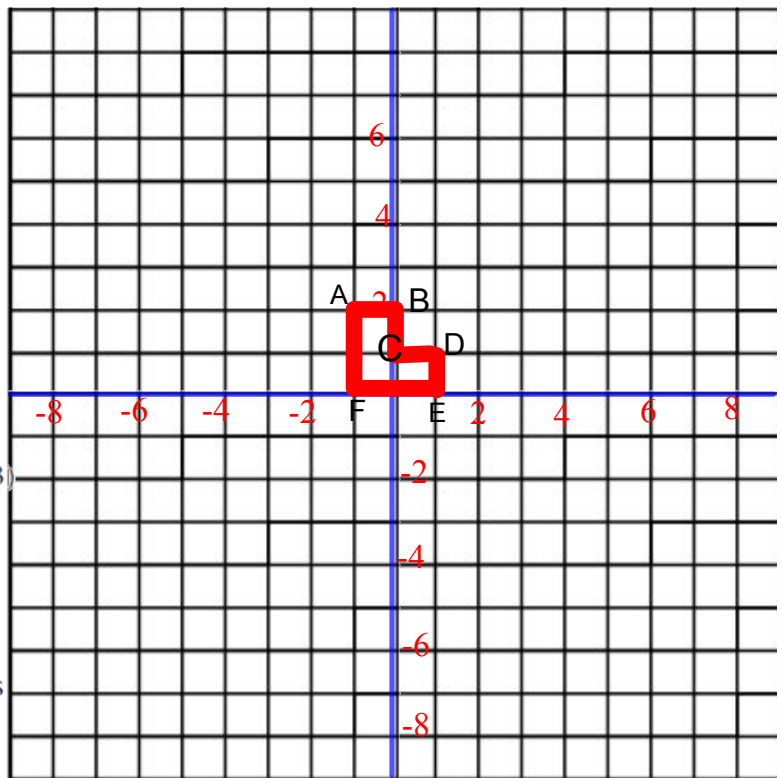
12. Which of these traffic signs have line symmetry? How many lines of symmetry in each case?



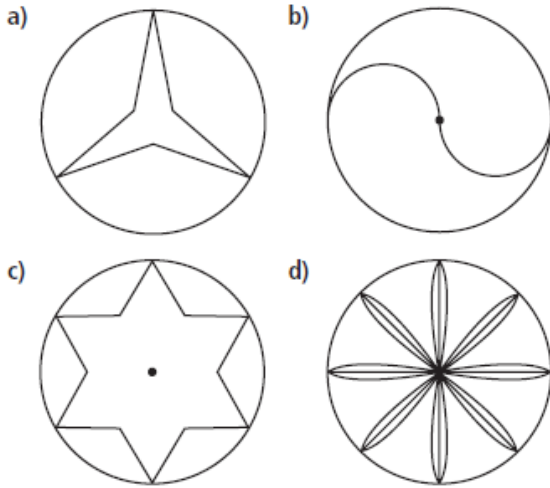
3. Hexagon ABCDEF is a part of a larger shape. Copy the hexagon on a grid.



- Complete the shape by reflecting the hexagon:
 - in the y -axis
 - in the x -axis
 - in the line through $(-2, -1)$ and $(2, 3)$
- Complete the shape with a translation R_2 .
- List the ordered pairs of the vertices of each completed shape.
- State whether each completed shape has line symmetry.

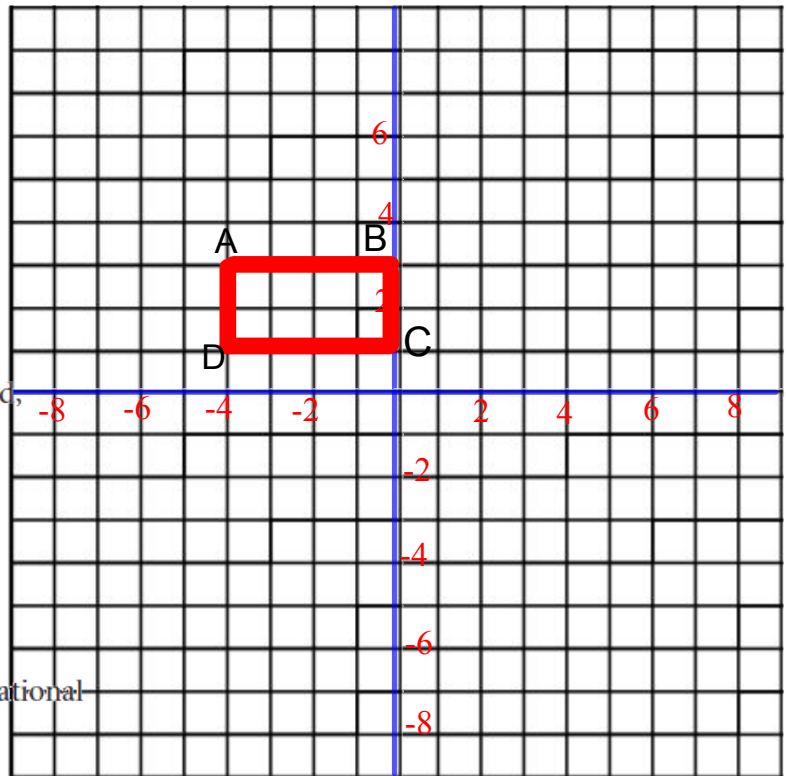


7.6 14. What is the order of rotational symmetry of each shape? How do you know?



15. Rectangle ABCD is part of a larger shape that is to be completed by a transformation image.

					y	
A					B	
					2	
D					C	
						x
-4	-2	0				



- a) Rotate rectangle ABCD as indicated, then draw and label each image.
 - i) 90° counterclockwise about the point $(-4, 2)$
 - ii) 180° about vertex B
 - iii) 270° counterclockwise about the point $(-2, 2)$
- b) Which diagrams in part a have rotational symmetry? How do you know?