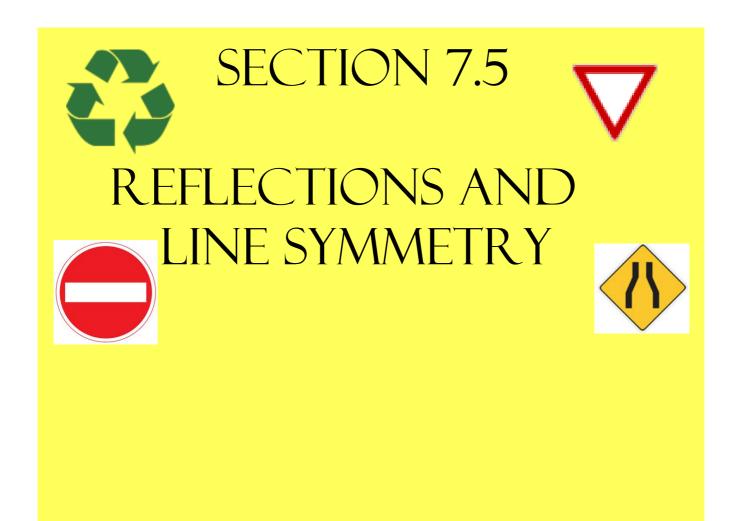
Curriculum Outcomes

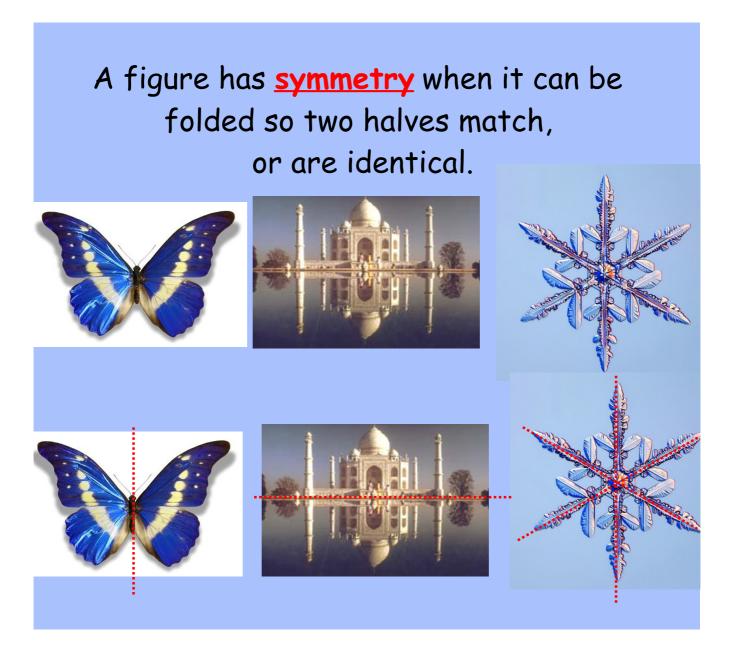
(SS3) Demonstrate an understanding of similarity of polygons.

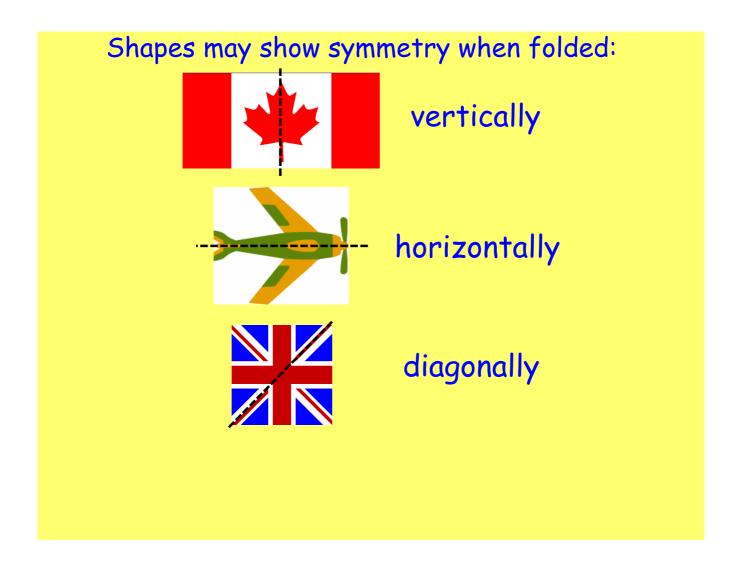
(SS4) Draw and interpret scale diagrams of 2-D shapes.

(SS5) Demonstrate an understanding of line and rotation symmetry.

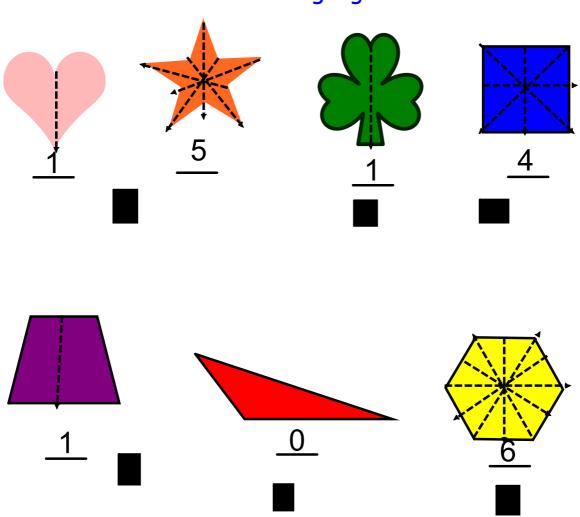
Student Friendly: Reflecting a shape across a line







How many lines of symmetry are in the following figures?



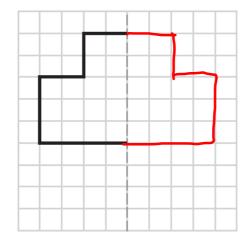
Symmetry

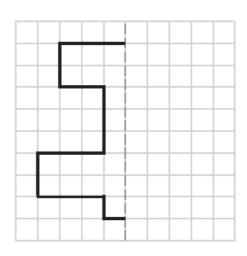
Color the shapes that are symmetric.

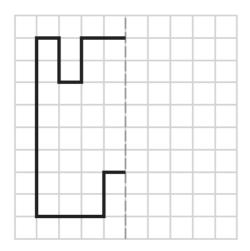
Creating Symmetry

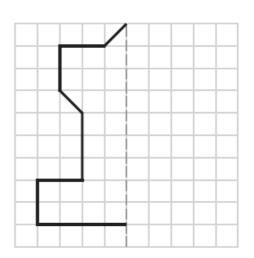
Name:	Class:
1 101110:	01000.

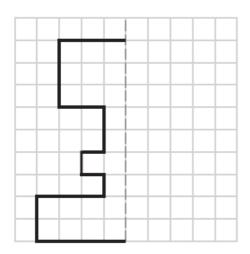
Each figure is half of a symmetric shape. Complete each figure by using the dotted line as the line of symmetry.

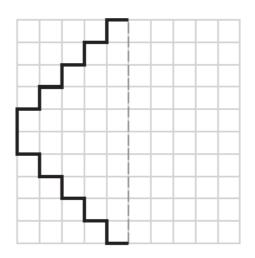


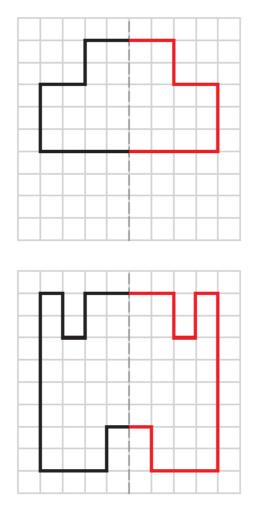


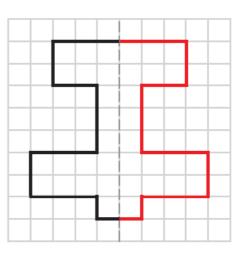


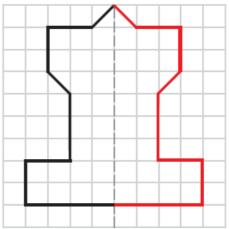


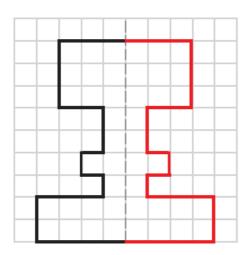


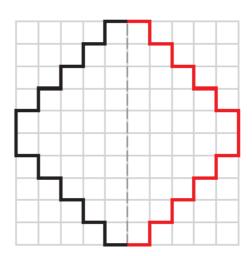




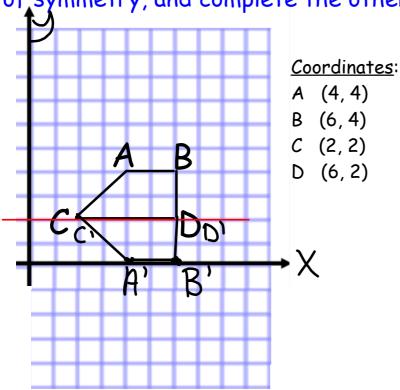




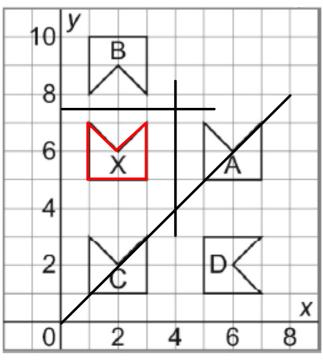




Copy the shape on graph paper. Use the red line as a line of symmetry, and complete the other half.

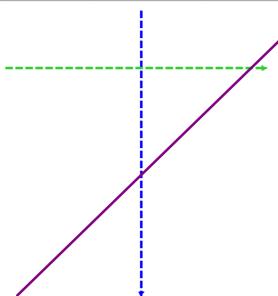


Identify the shapes that are related to the shape X by a line of <u>reflection</u>. Describe the symmetry in each case.



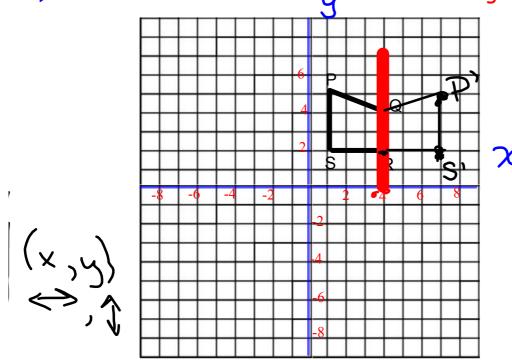
- **<u>A</u>**: reflected in vertical line passing through 4 on the x-axis
- **B**: reflected in horizontal line passing through 7.5 on the y-axis
- **C**: not related to X by line symmetry
- **<u>D</u>**: reflected in oblique line passing through (0, 0) and (8, 8)

Oblique just means a slanted line



Quadrilateral PQRS is part of a larger shape.

a) Draw a reflection in the vertical line through 4 on the x-axis.



b) Write the coordinates of the original shape

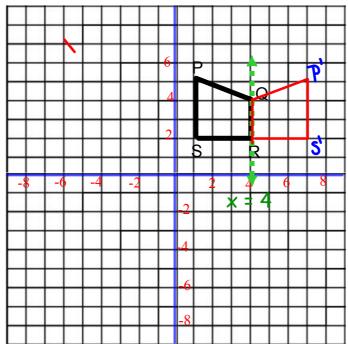
P(1,5)
$$R(4,2)$$
Q(4,4) $S(1,2)$
c) Write the coordinated of the reflected shape

Go to next page to see answers

$$P'(7,5)$$
 $R'(4,2)$ $Q'(4,4)$ $S'(7,2)$

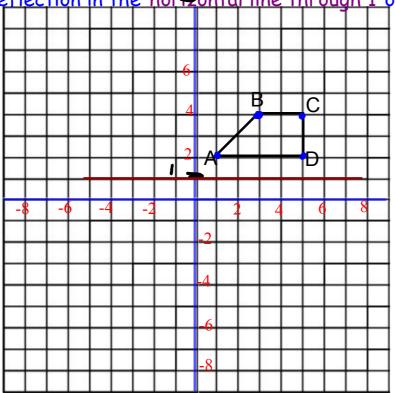
Quadrilateral PQRS is part of a larger shape.

a) Draw a reflection in the vertical line through 4 on the x-axis.



- b) Write the coordinates of the original shape P(., 3) Q(., 1)
- c) Write the coordinated of the reflected shape

Draw a reflection in the horizontal line through 1 on the y-axis.



- b) Write the coordinates of the shapes formed.
- c) Describe the new shape and its symmetry.



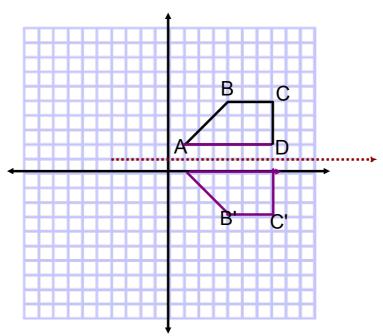
Homework:

p. 358 - 359



Questions: 3,5, 8, 9, 10

Draw a reflection in the horizontal line through 1 on the y-axis.



- b) Write the coordinates of the shape formed. A(1, 2) B(4, 5) C(7,5) D (7,2) A'(1,0) B'(4,-3) C'(7,-3)D' (7,0)
- c) Describe the new shape and its symmetry.