Curriculum Outcomes

(SS3) Demonstrate an understanding of similarity of polygons.

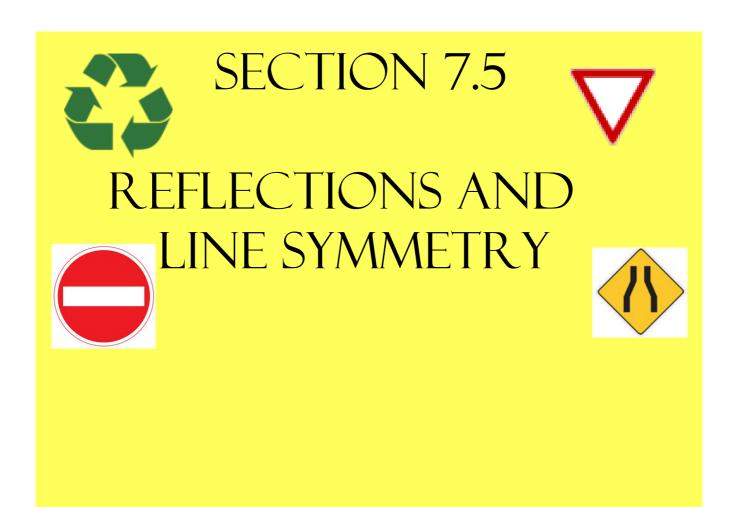
(SS4) Draw and interpret scale diagrams of 2-D shapes.

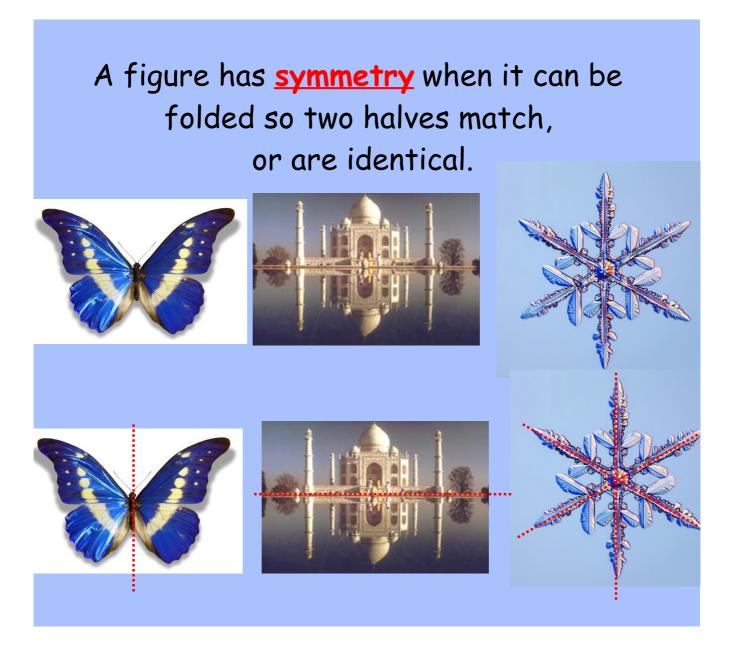
(SS5) Demonstrate an understanding of line and rotation symmetry.

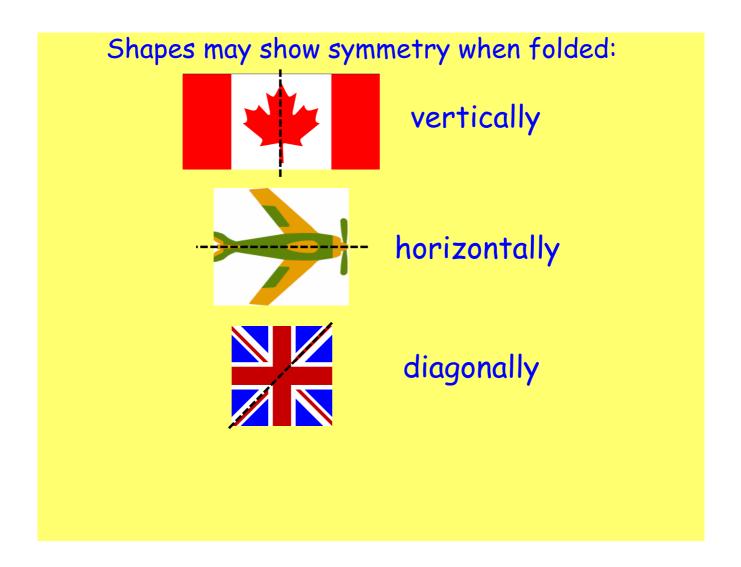
Student Friendly: Reflecting a shape across a line

Quiz Day

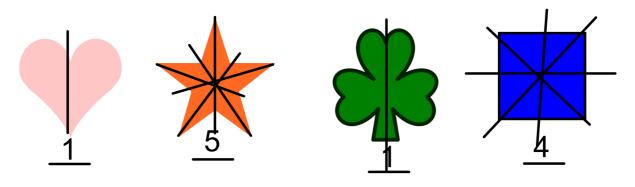


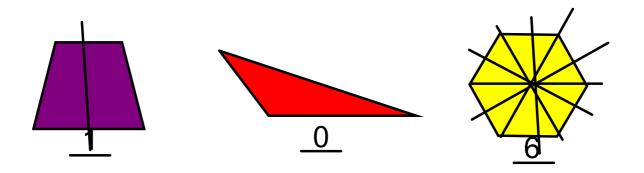




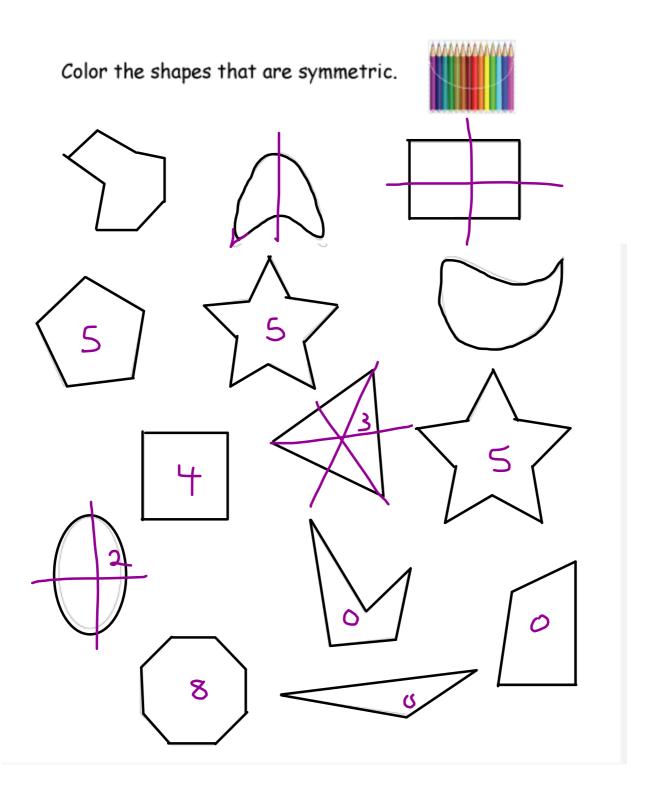


How many lines of symmetry are in the following figures?



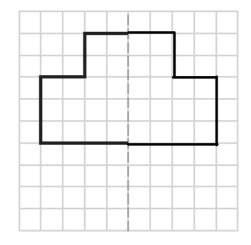


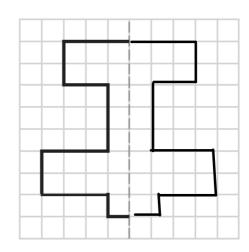
Symmetry

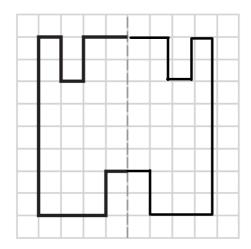


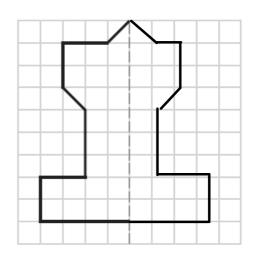
Creating Symmetry

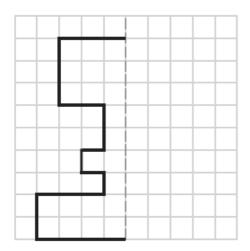
Each figure is half of a symmetric shape. Complete each figure by using the dotted line as the line of symmetry.

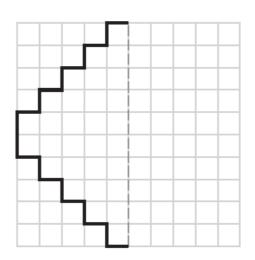


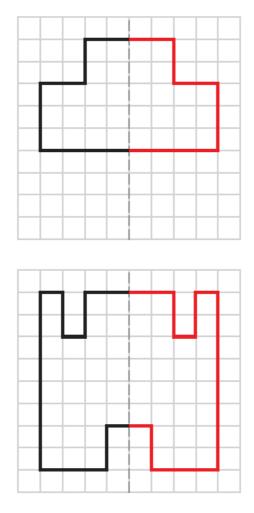


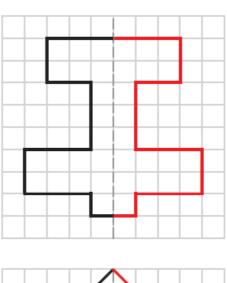


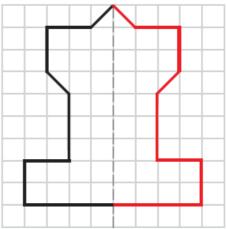


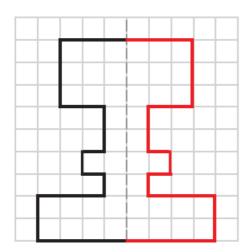


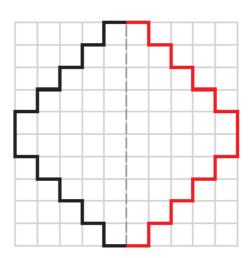




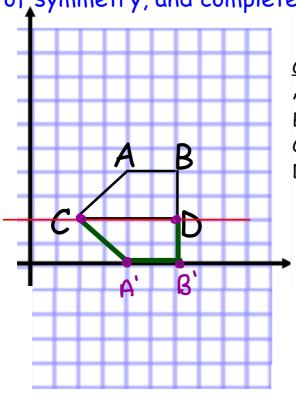








Copy the shape on graph paper. Use the red line as a line of symmetry, and complete the other half.



Coordinates:

A (4, 4)

B (6, 4)

C(2,2)

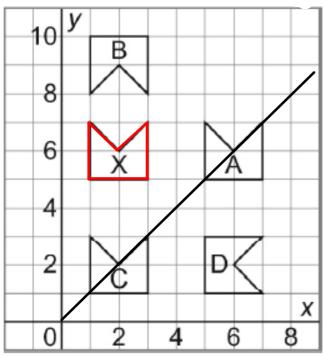
D (6, 2)

A' (4,0)

C, (3, 3)
B, (0,0)

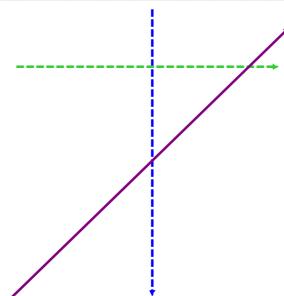
D'(6,2)

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



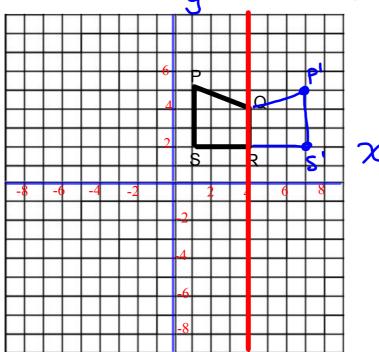
- **<u>A</u>**: reflected in vertical line passing through 4 on the x-axis
- **B**: reflected in horizontal line pass through 7.5 on the y-axis
- C: not related to X by line symmetry
- <u>D</u>: reflected in oblique line passing through (0, 0) and (8, 8)

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.

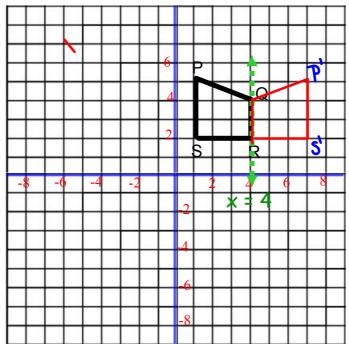


b) Write the coordinates of the original shape

c) Write the coordinated of the reflected shape

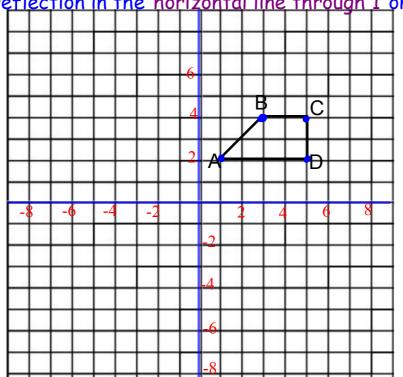
Quadrilateral PQRS is part of a larger shape.

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



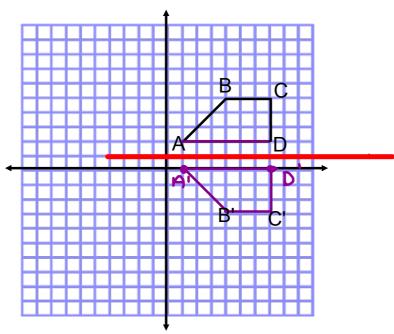
- b) Write the coordinates of the original shape P(., 3) Q(., 1)
- c) Write the coordinated of the reflected shape

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.

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) T(7,3)

A'(1,0) B'(4,-3) C'(7,-3) ∇ (7,0)

c) Describe the new shape and its symmetry.