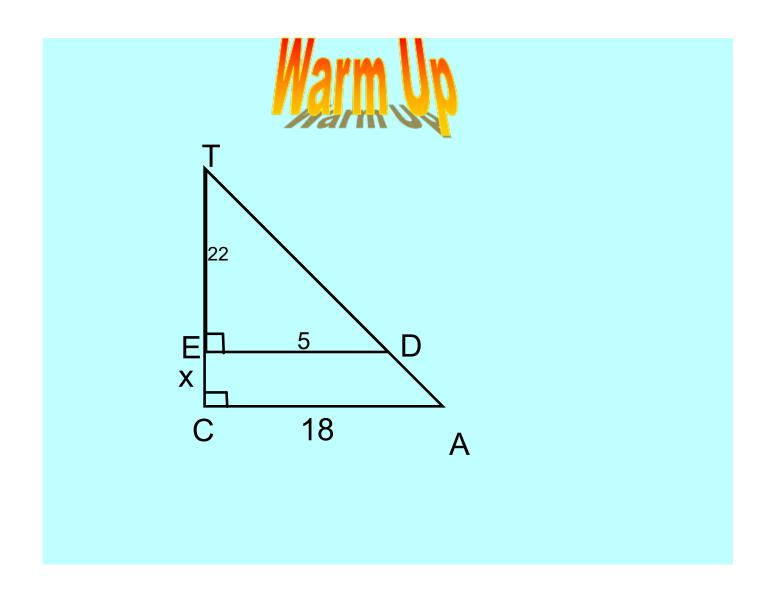
## Curriculum Outcomes

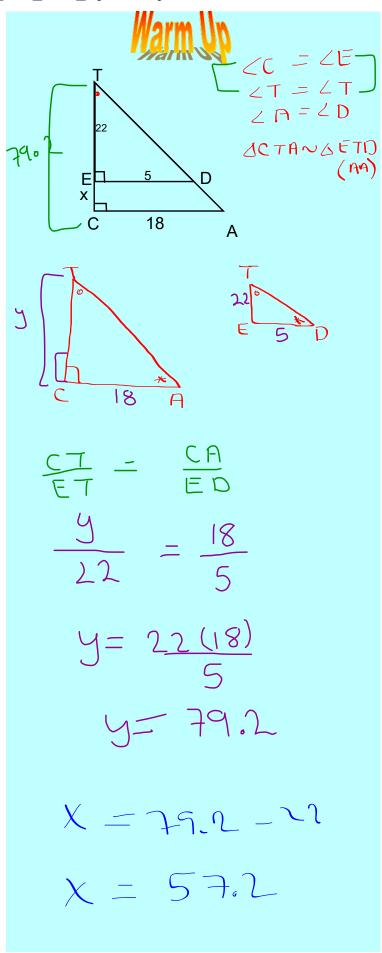
(SS3) Demonstrate an understanding of similarity of polygons.

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

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

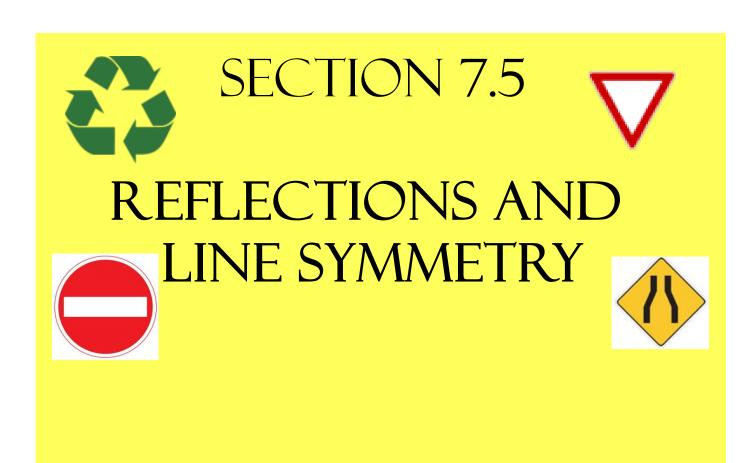
Student Friendly: Reflecting a shape across a line

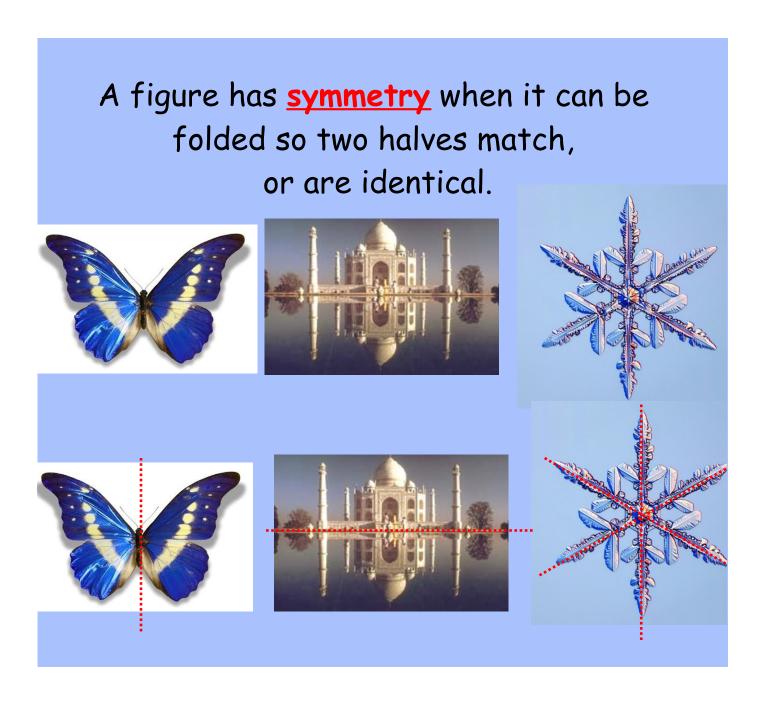


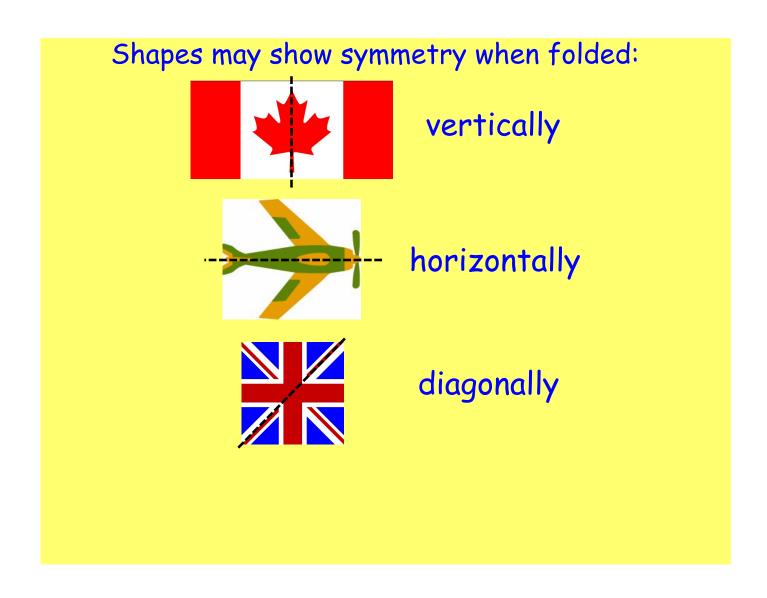




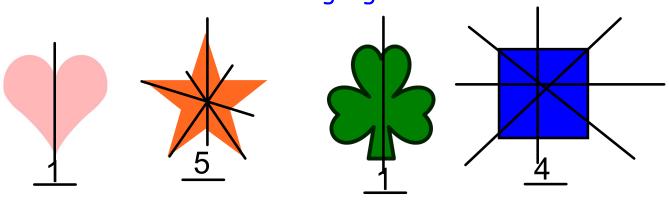
- Separate your desk
- -all you need is a calculator, pencil and an eraser

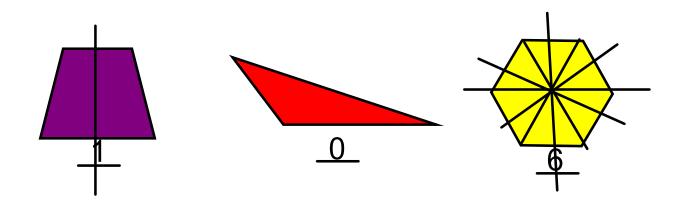






How many lines of symmetry are in the following figures?

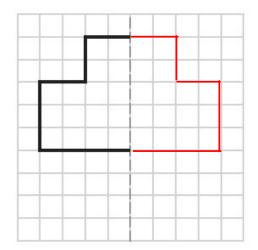


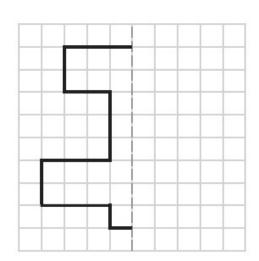


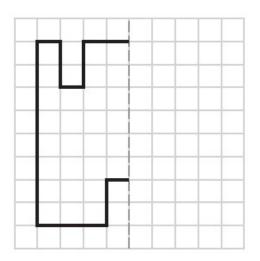
## Creating Symmetry

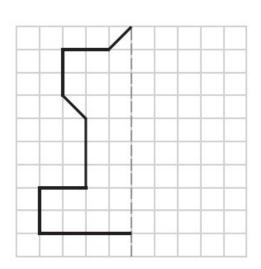
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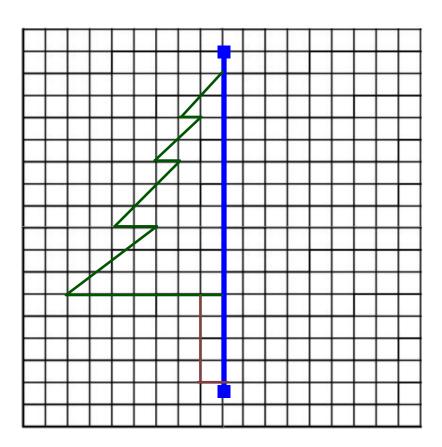
Each figure is half of a symmetric shape. Complete each figure by using the dotted line as the line of symmetry.

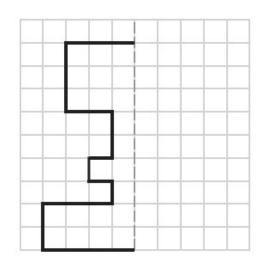


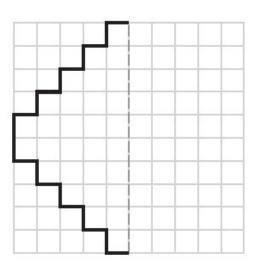


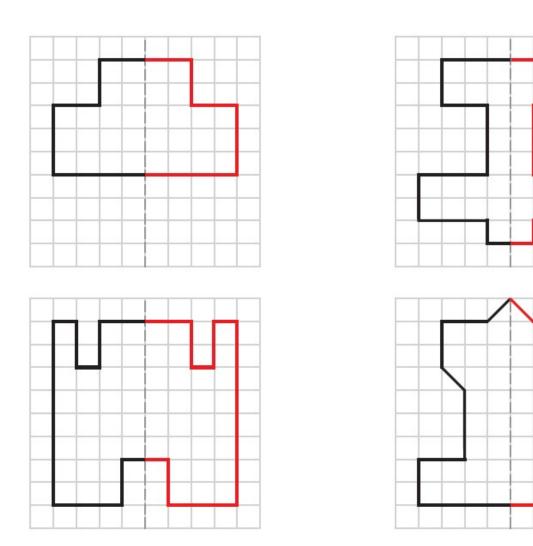


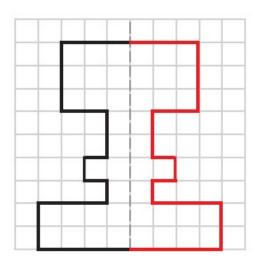


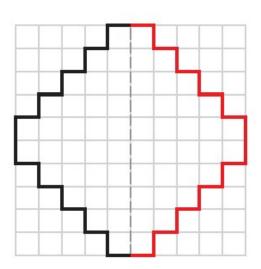




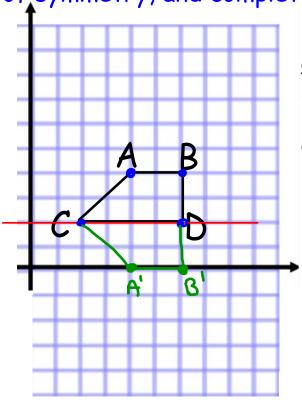








Copy the shape on graph paper. Use the red line as a line of symmetry, and complete the other half.



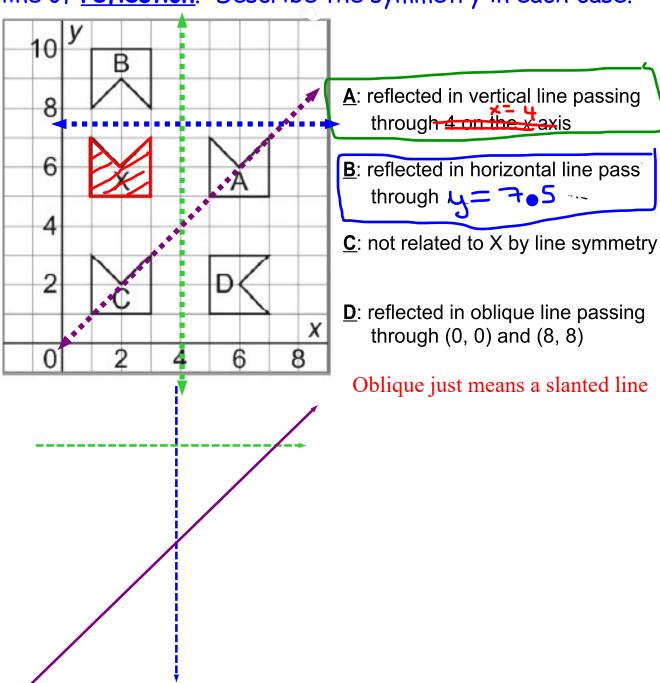
## Coordinates:

- A (4, 4)

- D (6, 2)

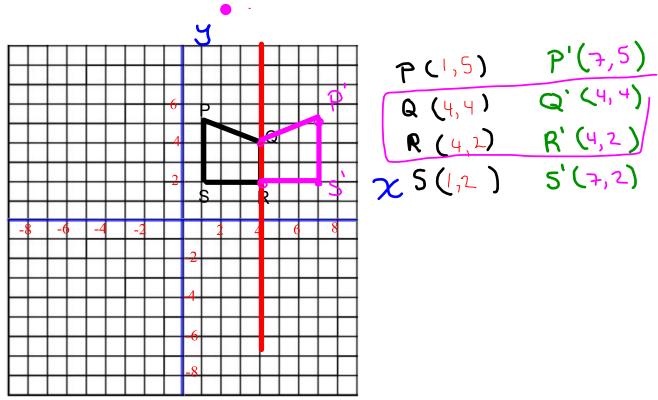
$$C(2,2)$$
  $C^{1}(2,2)$ 

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



Quadrilateral PQRS is part of a larger shape.

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



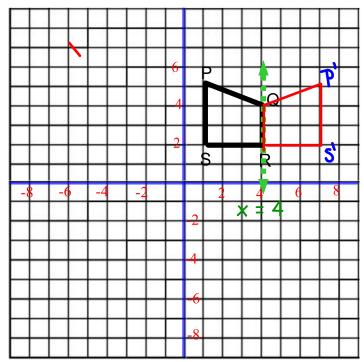
b) Write the coordinates of the original shape

Go to next page to see answers . . . .

c) Write the coordinated of the reflected shape

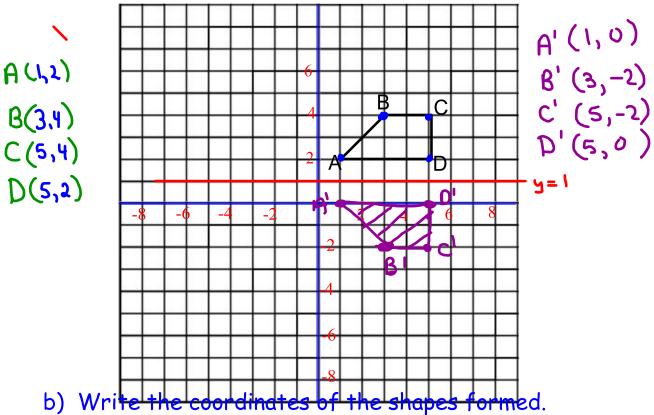
Quadrilateral PQRS is part of a larger shape.

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



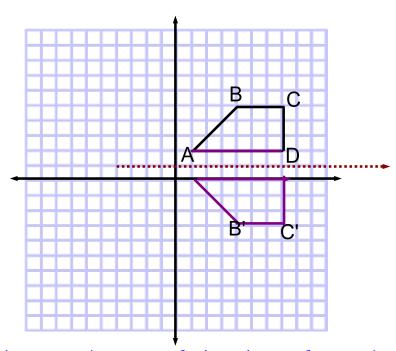
- b) Write the coordinates of the original shape P(1, 3) Q(1) S(1, 1)
- c) Write the coordinated of the reflected shape

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



- 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.

c) Describe the new shape and its symmetry.



## Homework:

p. 357 - 359



Questions: 3,5, 8, 9, 10