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

Apr 20-8:21 AM
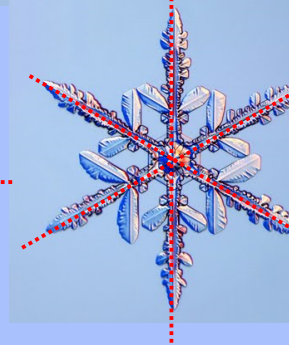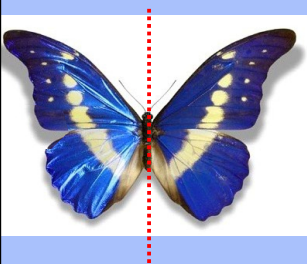
SECTION 7.5

REFLECTIONS AND LINE SYMMETRY

Apr 12-3:57 PM

A figure has **symmetry** when it can be
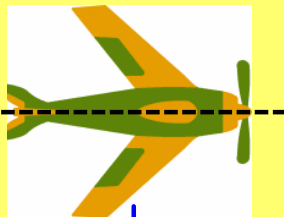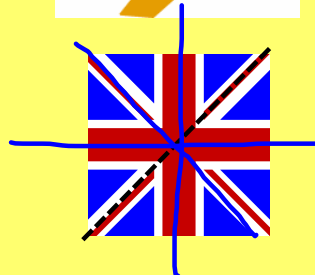folded so two halves match,
or are identical.

Apr 12-4:04 PM

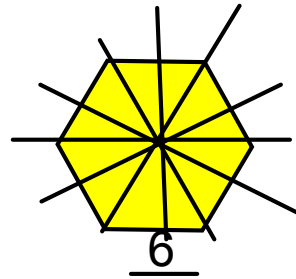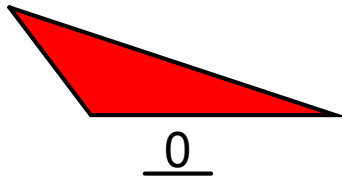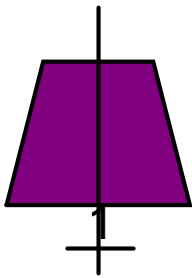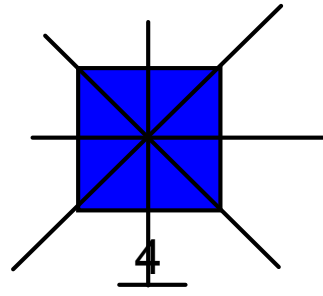Shapes may show symmetry when folded:
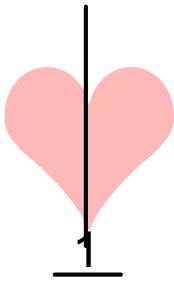
vertically

horizontally

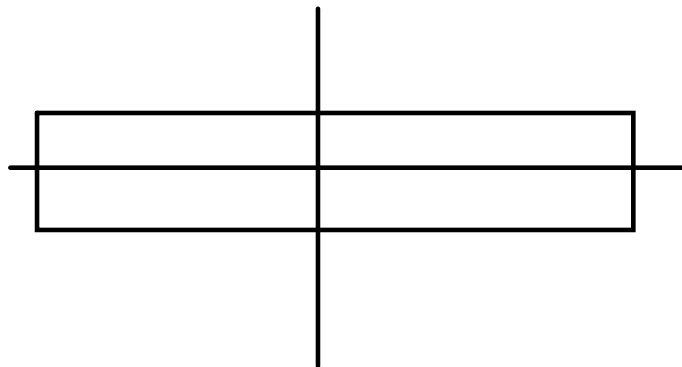diagonally

Apr 12-4:13 PM

How many lines of symmetry are in the following figures?

1   5   1   4

1   0   6

Apr 12-4:26 PM
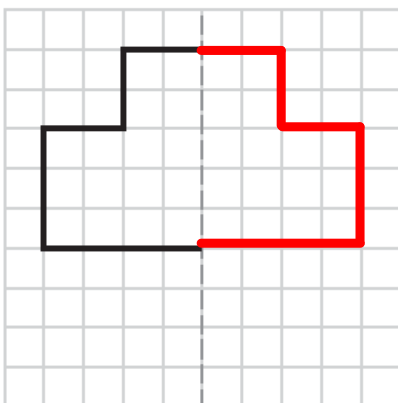

Apr 25-9:02 AM

Symmetry

Color the shapes that are symmetric.

5   5   0

5   3

2
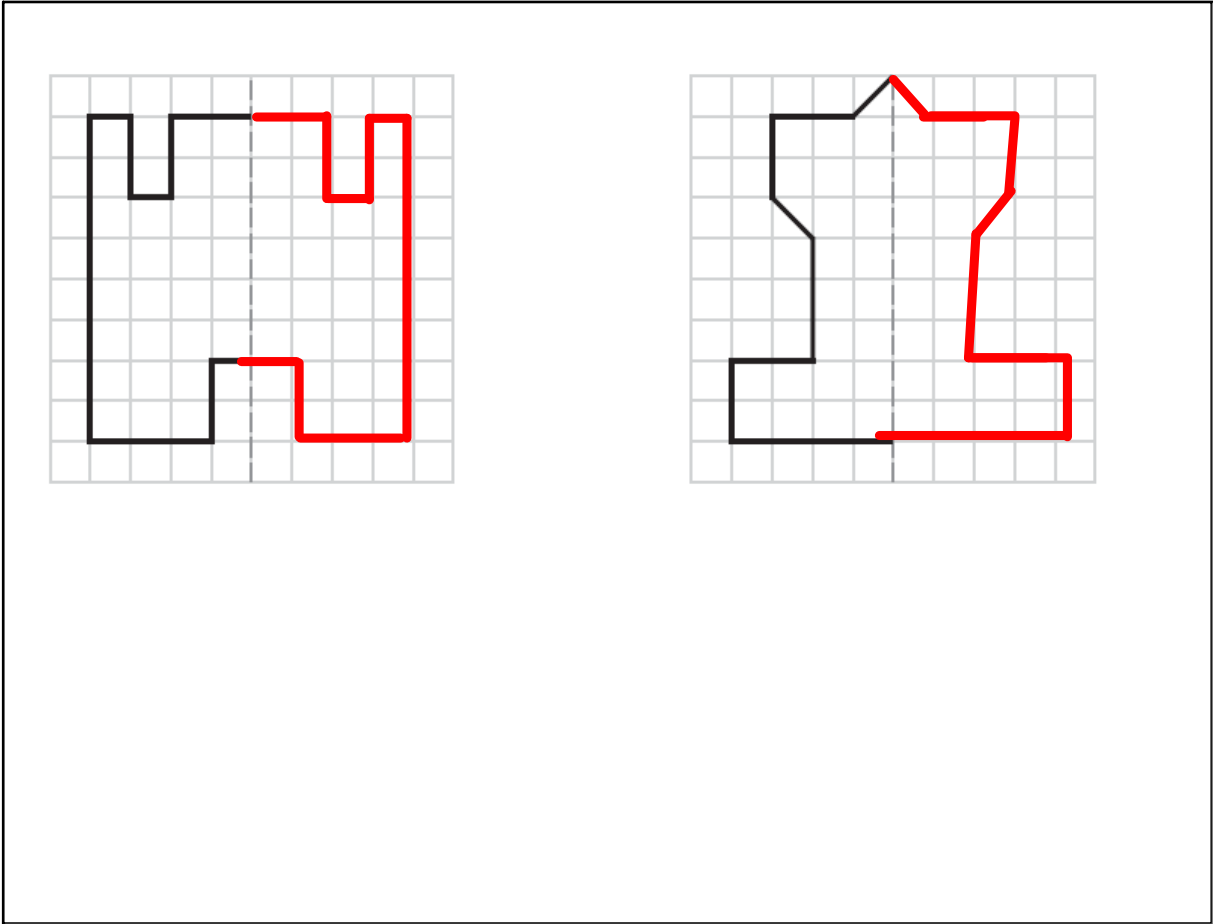
8   0   0

Apr 30-9:51 AM

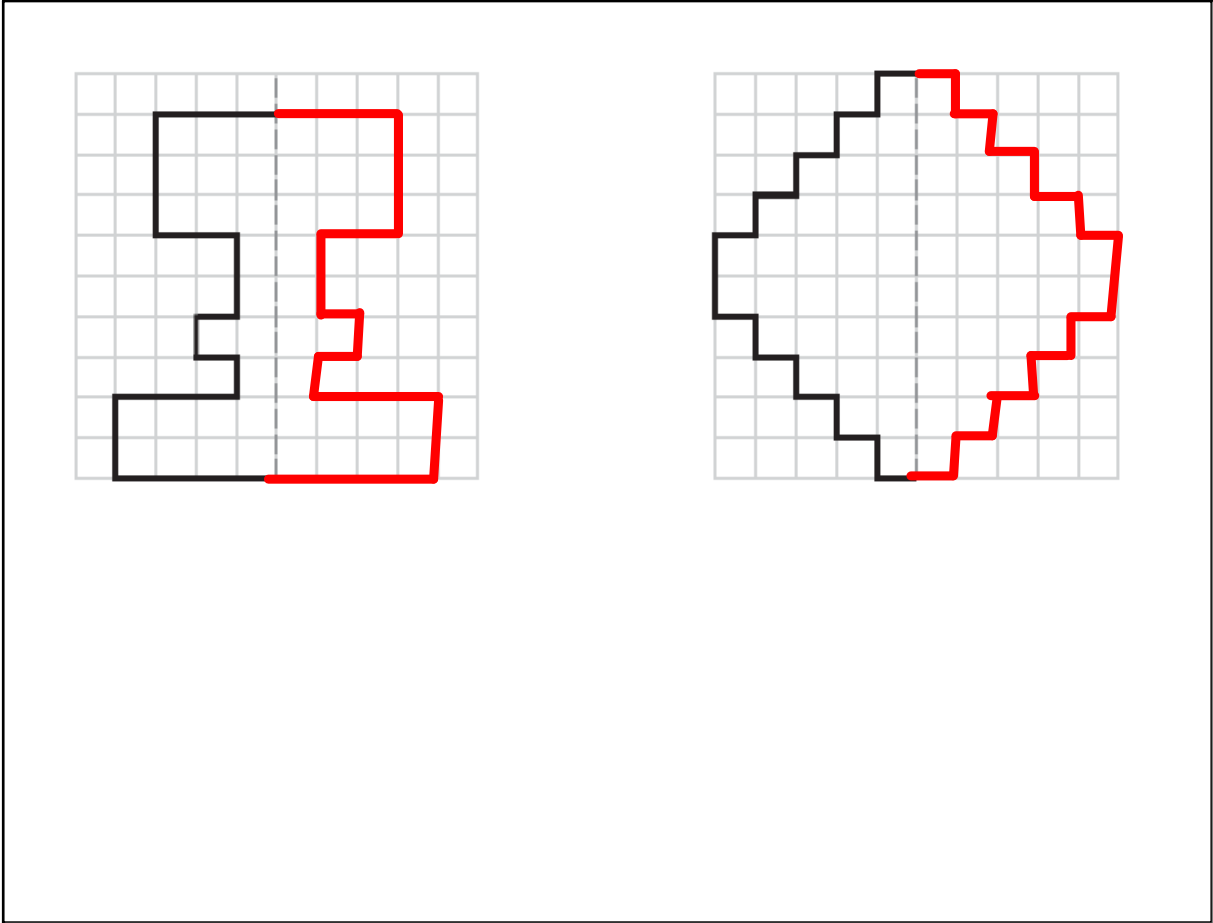# Creating Symmetry

Name: _____   Class: _____

Each figure is half of a symmetric shape. Complete each figure by using the dotted line as the line of symmetry.
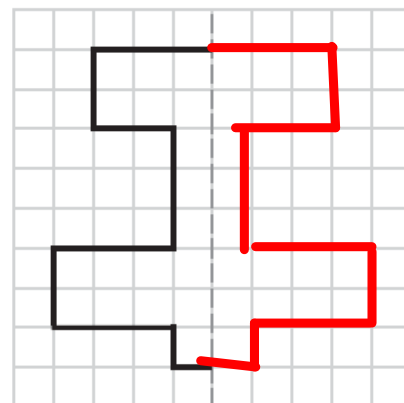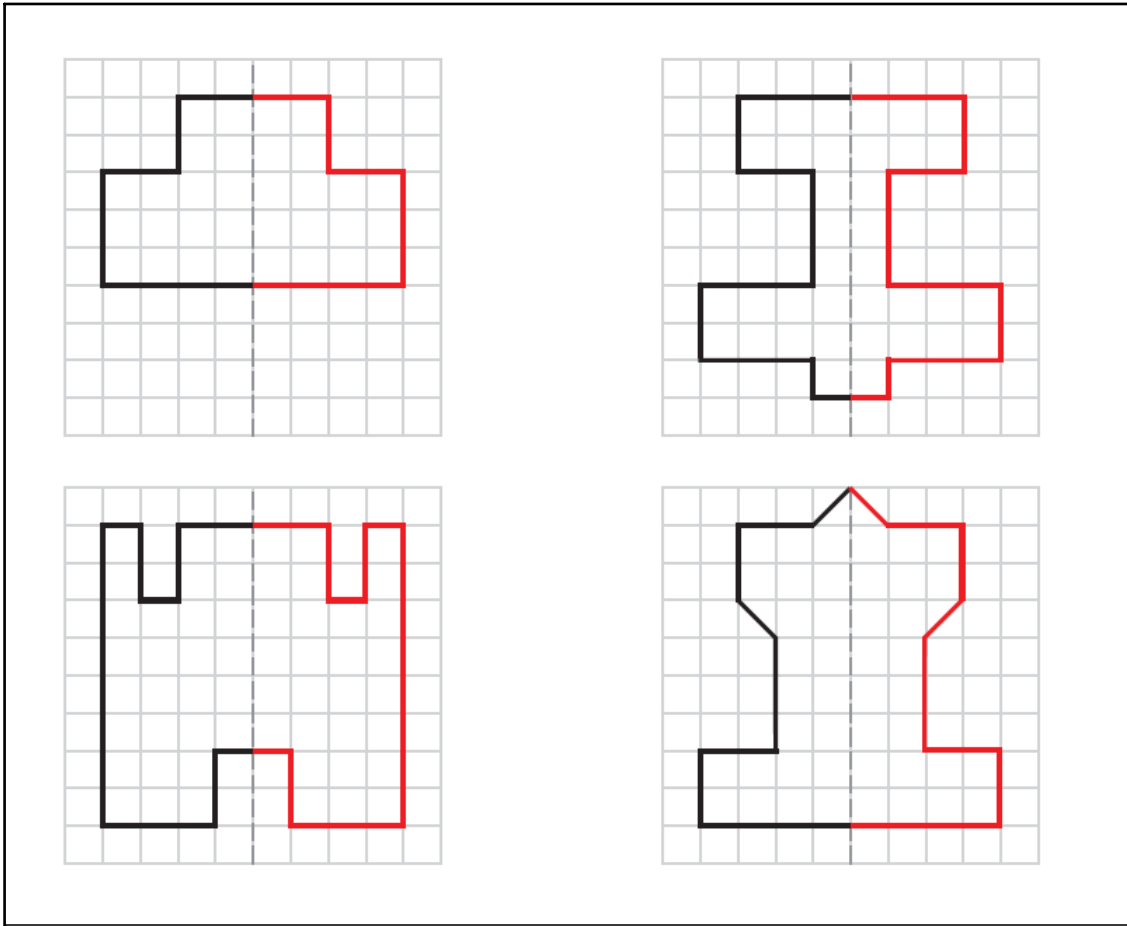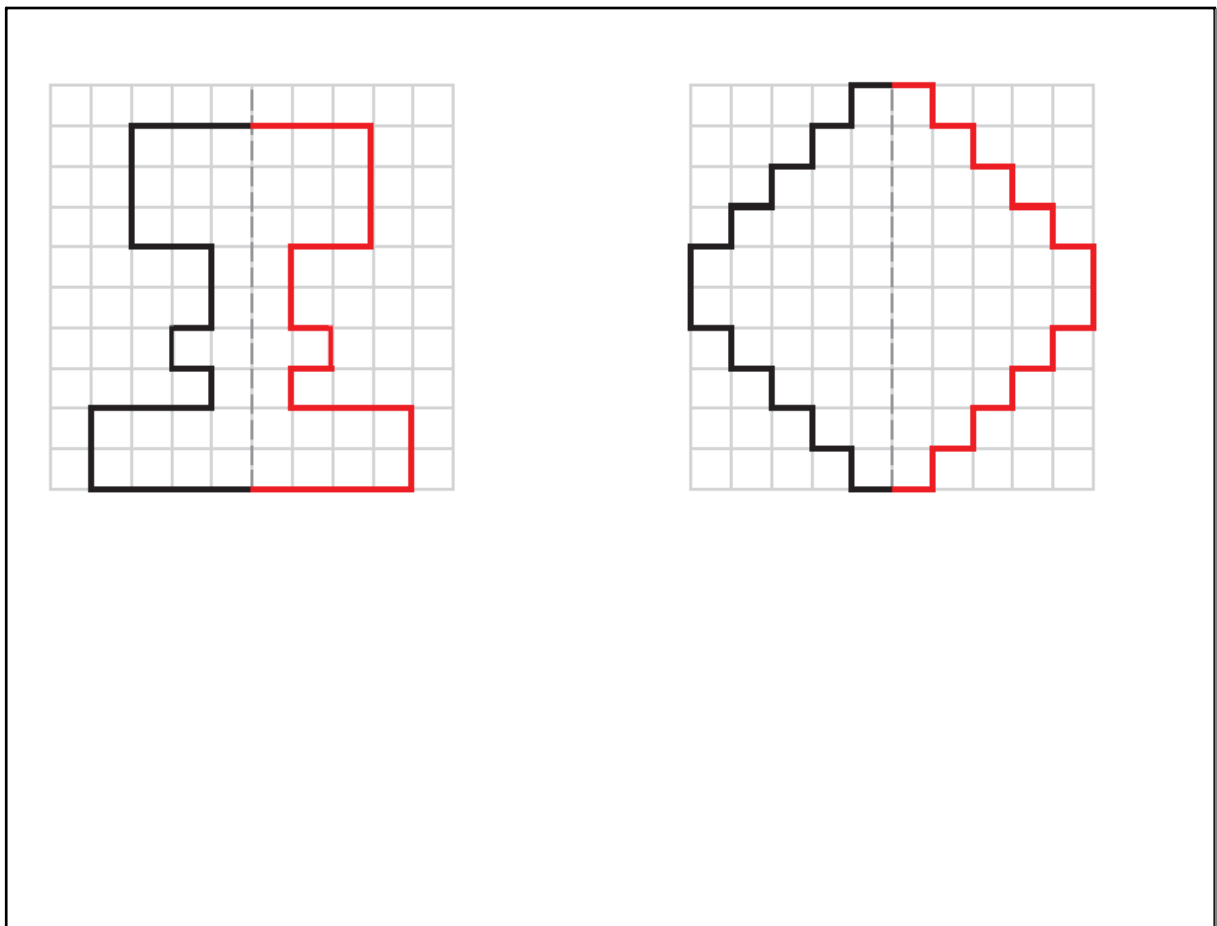
Apr 30-9:59 AM

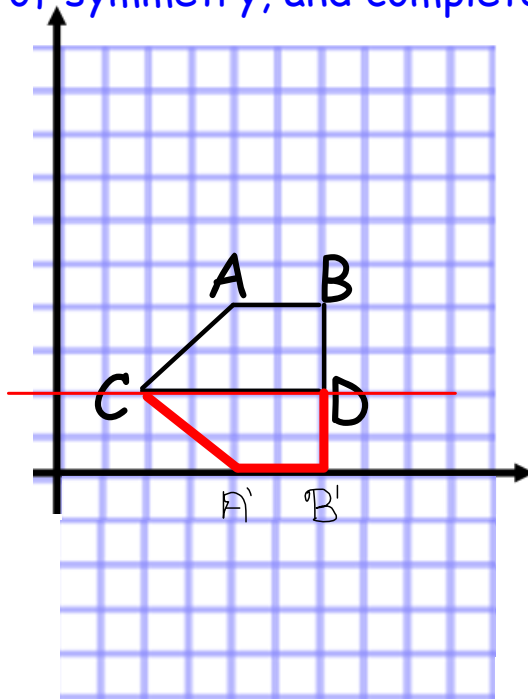Apr 30-9:59 AM

Apr 30-9:59 AM

Apr 30-10:00 AM

Apr 30-10:00 AM

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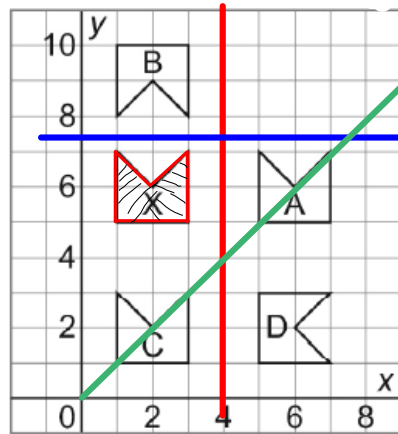

Coordinates:

A (4, 4)
B (6, 4)
C (2, 2)
D (6, 2)

reflection

A' (4, 0)
B' (6, 0)
C' (2, 2)
D' (6, 2)

Apr 13-9:11 AM

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

reflection through × = 4

A: 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

D: reflected in oblique line passing
  through (0, 0) and (8, 8)

Oblique just means a slanted line

Apr 14-7:50 AM

7

Quadrilateral PQRS is part of a larger shape.

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

Go to next page to see answers . . . .

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

P' (7,5)   R' (4,2)

Q' (4,0)   S' (7,2)
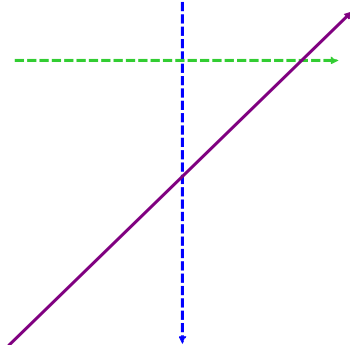
Apr 13-9:50 AM

Quadrilateral PQRS is part of a larger shape.

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

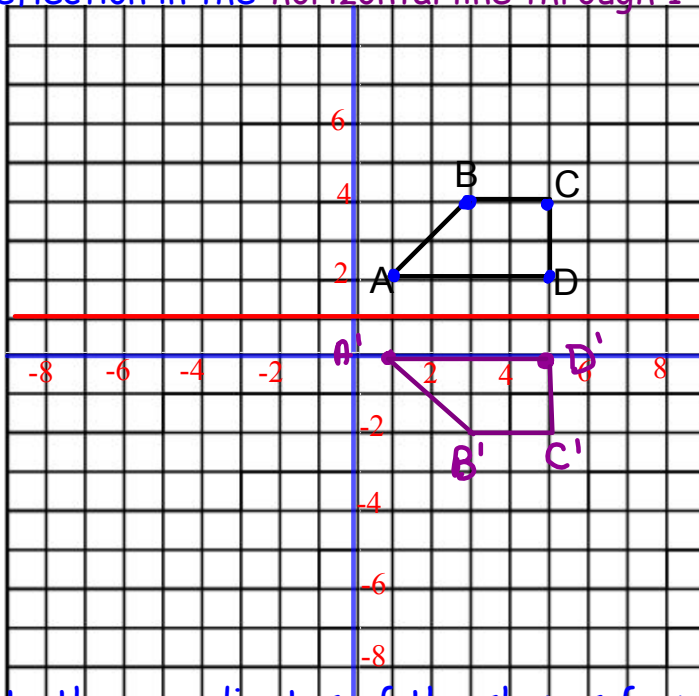b) Write the coordinates of the original shape

P(., 5)   Q(.)   S(.,1)

c) Write the coordinated of the reflected shape
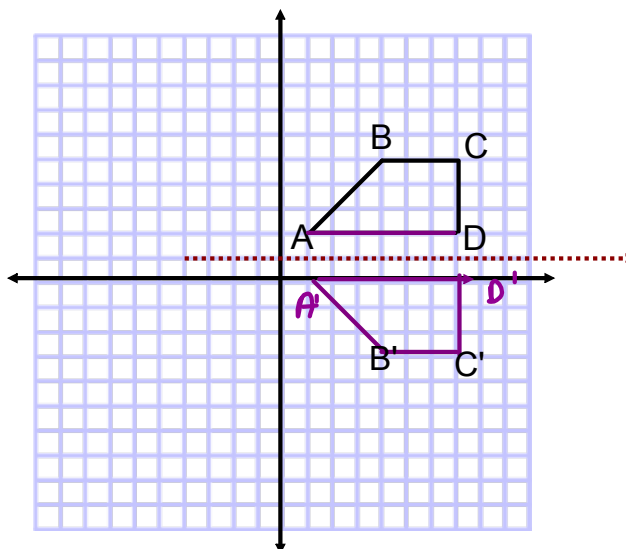
P'(7, 5)   S'(7, 1)

Apr 14-10:16 AM

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

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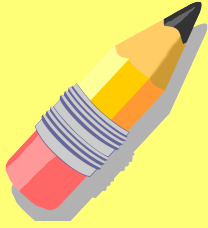
c) Describe the new shape and its symmetry.

Apr 14-10:12 AM

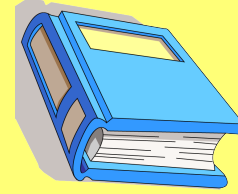Draw a reflection in the horizontal line through 1 on the y-axis.

b) Write the coordinates of the shape formed.

A(1, 2)   B(4, 5)   C(7,5)

A'(1,0)   B'(4,-3) C'(7,-3)

c) Describe the new shape and its symmetry.

Apr 14-10:25 AM

Homework:

p. 357 - 359

Questions: 3,5, 8, 9, 10

Apr 15-8:10 AM