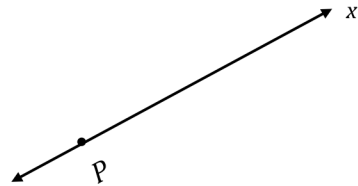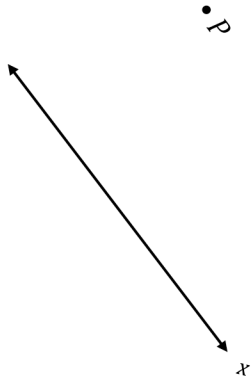Name _____   Date _____

1.

   a. Use a set-square to draw a line perpendicular to the x-axis through point P. Label the new line as the y-axis.

   b. Choose one of the sets of perpendicular lines above and create a coordinate plane. Mark 5 units on each axis, and label them as whole numbers.
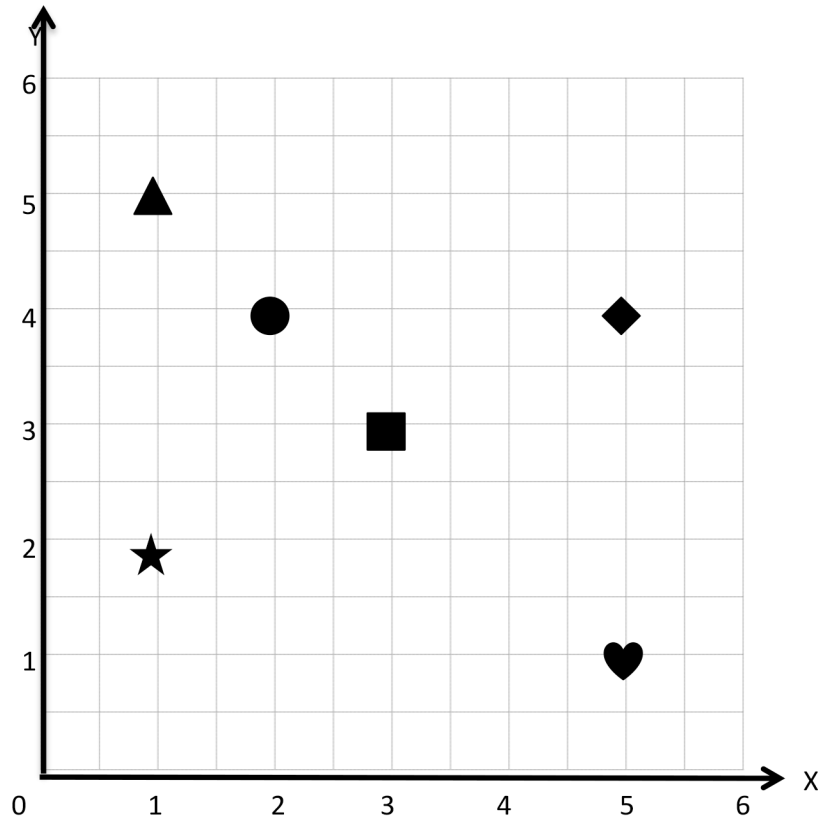
2. Use the coordinate plane to answer.

   a. Name the shape at each location.

x-coordinate	y-coordinate	Shape
2	4	
5	4	
1	5	
5	1	

   b. Which shape is 2 units from the x-axis?

   c. Which shape has the same x- and y-coordinate?

3. Use the coordinate plane to answer.
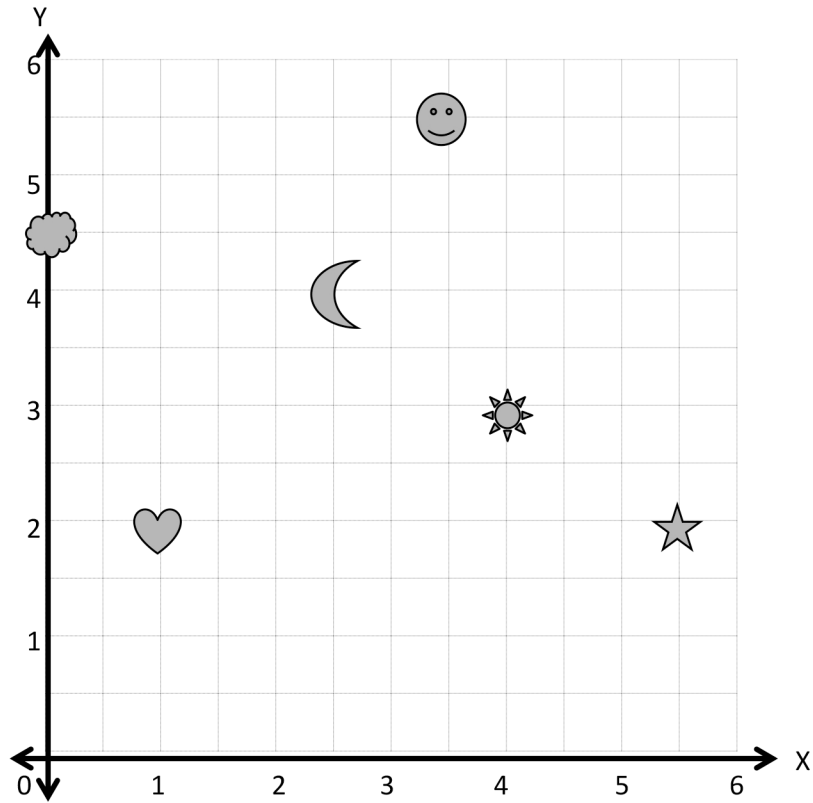
   a. Name the coordinates of each shape.

Shape	x-coordinate	y-coordinate
Moon		
Sun		
Heart		
Cloud		
Smiley Face		

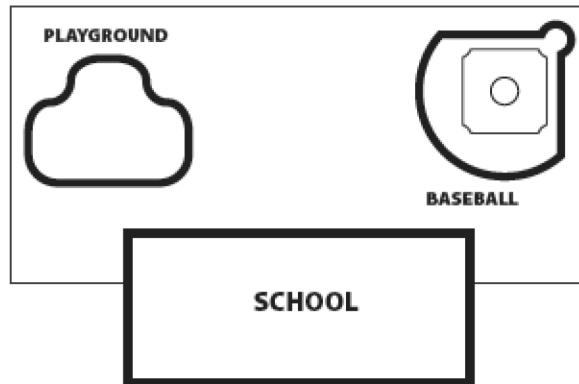   b. Which 2 shapes have the same y-coordinate?

   c. Plot an X at (2, 3).

   d. Plot a square at $(3, 2\frac{1}{2})$.

   e. Plot a triangle at $(6, 3\frac{1}{2})$.

4. Mr. Palmer plans to bury a time capsule 10 yards behind the school. What else should he do to make naming the location of the time capsule more accurate?

-

Answer Key

1. a. Answers will vary.

    b. Answers may vary.

2. a. Circle; diamond; triangle; heart

    b. Star

    c. Square

3. a. $2\frac{1}{2}$, 4; 4, 3; 1, 2; 0, $4\frac{1}{2}$; $3\frac{1}{2}$, $5\frac{1}{2}$

    b. Heart and star

    c. X plotted correctly

    d. Square plotted correctly

    e. Triangle plotted correctly

4. Explanations will vary.