



Problem 1 – Ordered Pairs

1.
 - a. For the point $(-2, 6)$, the first number, -2 , is the ____-coordinate (or the abscissa).
 - b. For the ordered pair $(-2, 6)$, the second number, 6 , is the __-coordinate (or the ordinate).

2.
 - a. The point $(1, 4)$ is in the first quadrant. In which quadrant is $(1, -4)$?
 - b. In which quadrant is $(-5, 2)$?
 - c. In which quadrant is $(-3, -2)$?
 - d. In which quadrant is $(4, 4)$?
 - e. In which quadrant is $(-4, 0)$?
 - f. In which quadrant is $(3, 5)$?

3.
 - a. Where are the coordinates (negative, positive)?
 - b. Where are the coordinates (positive, negative)?
 - c. Where is the ordered pair when it is (positive, positive)?
 - d. Where is the ordered pair when it is (negative, negative)?

4. On page 1.14, plot the points to unscramble the letters. What phrase is spelled out when the points are plotted correctly?

Problem 2 – Order Pears

At the market, the equation $y = 1.5x$ represents the cost to buy x amount of pears, where y is the cost in dollars.

5. Your order came to \$3. How many pears did you order?

6. After listing the data points and observing the pattern on page 2.4, record your observation.

7. Graph the function $f(x) = x$ on page 1.6. Grab the line and rotate it until the line matches the points. What is the slope of your line? How does it relate to the problem?

Extension

Extension 1: Find some other real-life data. Represent it as a set of ordered pairs, table, and scatter plot.

Extension 2

Come up with your own puzzle like the one on page 1.14 that you can share with a friend and your teacher.

You can test it out on page 3.2. To delete a point so the page is clear, click the point and press the backspace/CLEAR button.