

Key

NAME

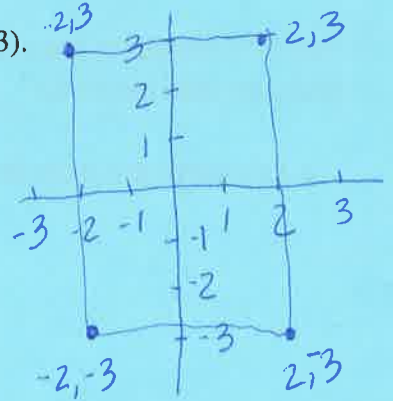
DATE

PERIOD

1/20

# Unit 7, Lesson 11: Points on the Coordinate Plane

1. a. Graph these points in a coordinate plane:  $(-2, 3)$ ,  $(2, 3)$ ,  $(-2, -3)$ ,  $(2, -3)$ .



b. Connect all of the points. Describe the figure.

Rectangle

2. Write the coordinates of each point.

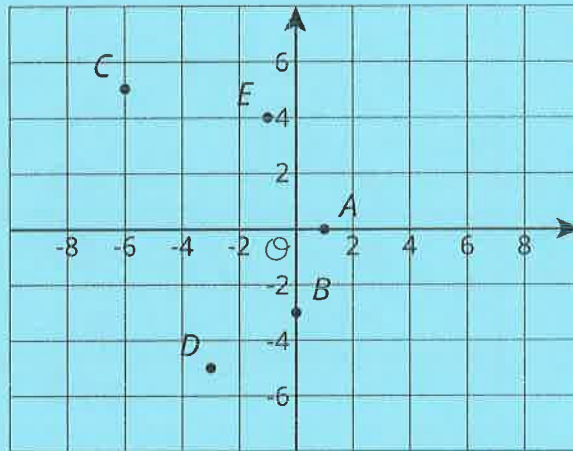
A 1, 0

B 0, -3

C -6, 5

D -3, -5

E 1, 4



3. These three points form a horizontal line:  $(-3.5, 4)$ ,  $(0, 4)$ , and  $(6.2, 4)$ . Name two additional points that fall on this line.

1, 4    -2, 4    10, 4    same y coordinate

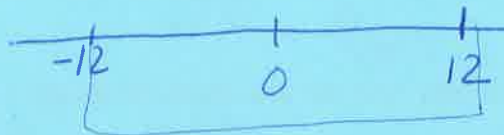
4. One night, it is  $24^\circ\text{C}$  warmer in Tucson than it was in Minneapolis. If the temperatures in Tucson and Minneapolis are opposites, what is the temperature in Tucson?

A.  $-24^\circ\text{C}$

B.  $-12^\circ\text{C}$

C.  $12^\circ\text{C}$

D.  $24^\circ\text{C}$



has to be  $24^\circ$  difference

NAME \_\_\_\_\_

DATE \_\_\_\_\_

PERIOD \_\_\_\_\_

(from Unit 7, Lesson 2)

5. Noah is helping his band sell boxes of chocolate to fund a field trip. Each box contains 20 bars and each bar sells for \$1.50.

a. Complete the table for values of  $m$ .

boxes sold ( $b$ )	money collected ( $m$ )
1	\$ 30
2	60
3	90
4	120
5	150
6	180
7	210
8	240

boxes  $\times$  20  $\times$  1.50  
30

1/8

b. Write an equation for the amount of money,  $m$ , that will be collected if  $b$  boxes of chocolate bars are sold. Which is the independent variable and which is the dependent variable in your equation?

$m = 30b$   
 depend  $\rightarrow$  money depends on boxes  
 $\leftarrow$  independent

1/1

c. Write an equation for the number of boxes,  $b$ , that were sold if  $m$  dollars were collected. Which is the independent variable and which is the dependent variable in your equation?

$b = \frac{m}{30}$   
 $\rightarrow$  depend  
 $\leftarrow$  independent

1/1

(from Unit 6, Lesson 16)

6. Lin ran 29 meters in 10 seconds. She ran at a constant speed.

a. How far did Lin run every second?

$\frac{29 \text{ m}}{10 \text{ s}} = \frac{2.9 \text{ m}}{1 \text{ second}}$

1/2

b. At this rate how far can she run in one minute?

$2.9 \text{ m} \times 60 \text{ sec} = 174 \text{ meters}$