

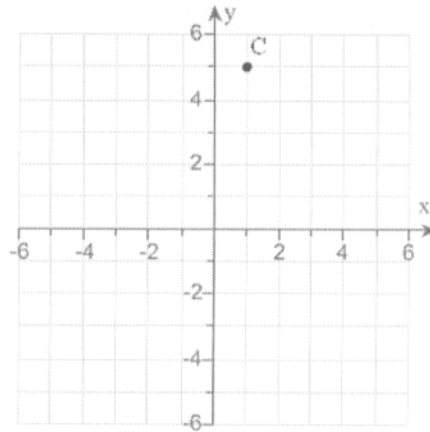
Student: _____
 Date: _____
 Time: _____

Instructor: courtney trabue
 Course: GMC LSS Mathematics
 Book: Martin-Gay: Developmental
 Mathematics

Assignment: MAT 097 Graphs &
 Coordinate System (10.1)

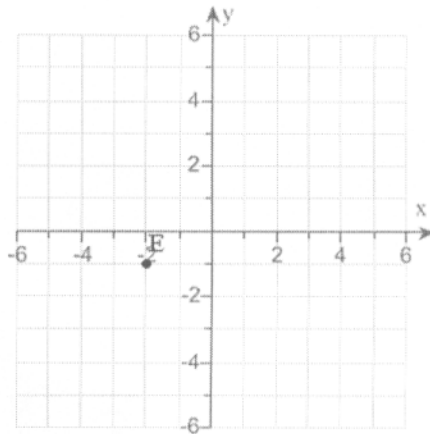
1. Find the x- and y-coordinates of the point C.

The coordinates of C are .
 (Type an ordered pair.)



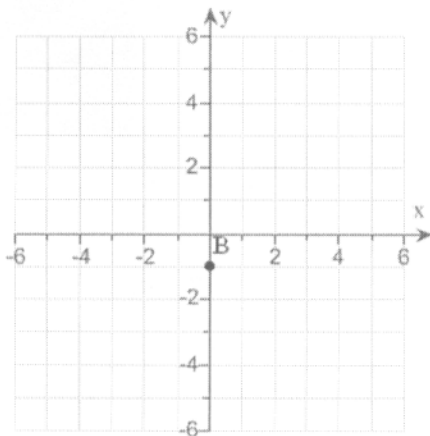
2. Find the x- and y-coordinates of the point E.

The coordinates of E are .
 (Type an ordered pair.)



3. Find the x- and y-coordinates of the point B.

The coordinates of B are .
 (Type an ordered pair.)



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4. The table shows the amount of money (in billions of dollars) that a country spent on their pets for the years shown.

Year	Pet-Related Expenditures (in billions of dollars)
2001	27.9
2002	29.5
2003	32.1
2004	34.6

Complete parts a through d below.

- a. Write this paired data as a set of ordered pairs of the form (year, pet-related expenditures).

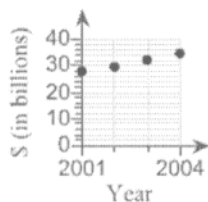
(Type an ordered pair. Type an integer or a decimal. Use a comma to separate answers as needed.)

- b. What is the meaning of the ordered pair (2004,34.6)? Choose the sentence below that best describes the meaning of the ordered pair.

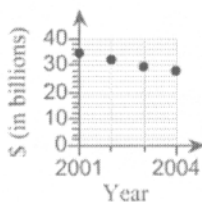
- A. In the year 2004, \$34.6 billion was spent on pet-related expenditures.
 B. From 2001 to 2004, \$34.6 billion was spent on pet-related expenditures.
 C. In the year 2004, the average person spent \$34.60 on pet-related expenditures.

- c. Create a scatter diagram of the paired data. Choose the correct scatter diagram of the paired data below.

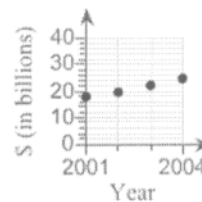
A.



B.



C.



- d. What trend in the paired data does the scatter diagram show?

The pet-related expenditures over time.

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5. A student kept a record of how much time he spent studying for each of his 20-point health quizzes and his score on each quiz. Complete parts **a** through **d** below.

Hours Spent Studying	0.50	0.75	1.00	1.25	1.50	1.75	1.75	2.00
Quiz Score	9	12	12	14	16	16	19	20

a. Write each paired data as an ordered pair of the form (hours spent studying, quiz score). Choose the set of ordered pairs that represents the paired data in the correct form below.

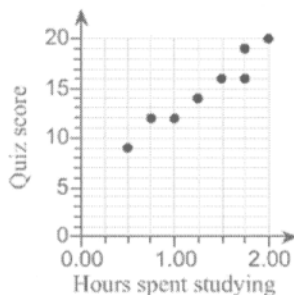
- A. (0.50,9),(0.75,12),(1.00,12),(1.25,14),
 (1.50,16),(1.75,16),(1.75,19),(2.00,20)
- B. (9,0.50),(12,0.75),(12,1.00),(14,1.25),
 (16,1.50),(16,1.75),(19,1.75),(20,2.00)
- C. (9,12),(12,14),(16,16),(19,20),(0.50,0.75),
 (1.00,1.25),(1.50,1.75),(1.75,2.00)

b. What is the meaning of the ordered pair (1.25,14)? Choose the sentence below that best describes the meaning of the ordered pair.

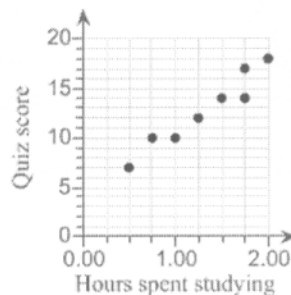
- A. When the student studied for 1.25 hours, his quiz score was 14.
- B. When the student studies for 1.25 hours, his quiz score will be 14.
- C. The student has to study for 1.25 hours to earn a quiz score of 14.

c. Create a scatter diagram of the paired data. Choose the correct diagram below.

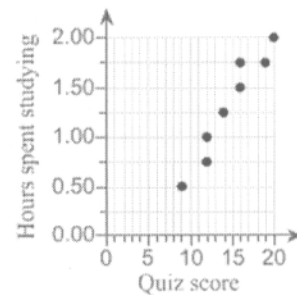
A.



B.



C.



d. What might the student conclude from the data?

More hours spent studying the quiz score.

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6. Complete each ordered pair so that it is a solution of the given linear equation.

$$x - 2y = -5; (\quad, 1), (-13, \quad)$$

The first ordered pair is $(\square, 1)$.

The second ordered pair is $(-13, \square)$.

7. Complete each ordered pair so that it is a solution of the given linear equation.

$$y = \frac{1}{3}x - 4; (-15, \quad), (\quad, 1)$$

The first ordered pair is $(-15, \square)$.

The second ordered pair is $(\square, 1)$.

8. Complete the table of ordered pairs for the given linear equation.

$$y = -x - 9$$

x	y
0	
	0
-2	

x	y
0	<input type="text"/>
<input type="text"/>	0
-2	<input type="text"/>

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9. Complete the table of ordered pairs for the given linear equation.

$$y = \frac{1}{2}x$$

x	y
0	
-18	
	4

x	y
0	<input type="text"/>
-18	<input type="text"/>
<input type="text"/>	4

10. Complete the table of ordered pairs for the given linear equation.

$$x + 5y = 15$$

x	y
0	
	0
	6

x	y
0	<input type="text"/>
<input type="text"/>	0
<input type="text"/>	6

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11. Complete the table of ordered pairs for the given linear equation. Then plot the ordered pair solutions.

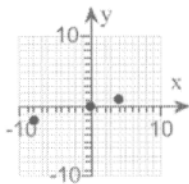
$$x = 4y$$

x	y
	0
	1
-8	

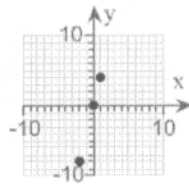
x	y
<input type="text"/>	0
<input type="text"/>	1
-8	<input type="text"/>

Choose the correct graph of the ordered pair solutions below.

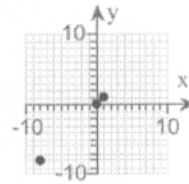
A.



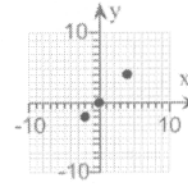
B.



C.



D.



12. Complete each ordered pair for the given linear equation. Then plot the ordered pair solutions.

$$y = -4x$$

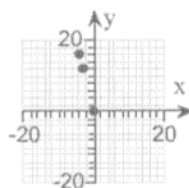
(0,)

(-4,)

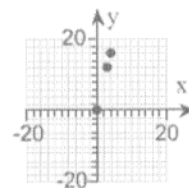
(, 12)

Choose the graph that shows the three ordered pair solutions found above.

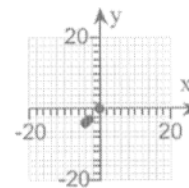
A.



B.



C.



D.

