Name_____ Date_____ Period_____

LESSON 9-2 · SESSION 1 · PRACTICE · FORM A

From Table to Graph

Learning target – I can turn a table of values into points and plot them on a graph. · 6.EE.C.9

REMEMBER

- Each row of a table gives an **ordered pair** (x, y): the input first, then the output.
- To plot (x, y), start at (0, 0). Go **right** x, then **up** y.
- Points from a constant rate line up in a **straight line**. A starting fee moves the line up off (0, 0).

WORKED EXAMPLE

A table for $y = 4x$ has $x = 1, 2, 3$. Plot the points.

Step 1 Write the pairs: (1, 4), (2, 8), (3, 12).

Step 2 Plot (1, 4): right 1, then up 4. Plot the others the same way.

Step 3 Check: the points line up.

Answer **three points in a straight line**

WORDS **ordered pair** *(par ordenado)* · **coordinates** *(coordenadas)* · **axis** *(eje)*

PRACTICE

show your work · label units

1. Write each table row as an ordered pair (x, y).

a. $x = 3, y = 6$ _____

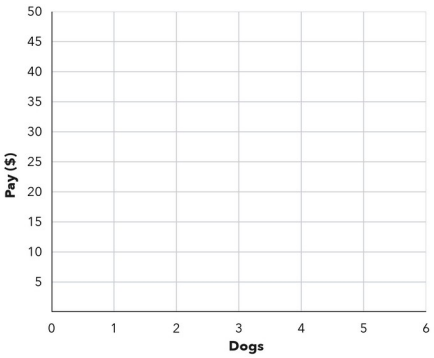
b. $x = 5, y = 45$ _____

c. $x = 0, y = 7$ _____

d. $x = 8, y = 1$ _____

2. **Dog-Walking Pay.** Priya earns $9 for every dog she walks. Complete the table. Then plot the points on the grid.

Dogs (x)	1	2	3	5
Pay in \$ (y)				



3. **Ski Lift.** A ski lift rises 50 feet every second. Write the ordered pair for 6 seconds. What does it mean?

Hint *Seconds come first; multiply by 50 for the feet.*

Pair_____

4. **Reading Log.** Sofia's table shows x: 1, 2, 3, 4 nights and y: 25, 50, 75, 100 minutes read. For the third night she plotted (75, 3). What did she do wrong? Give the correct point.

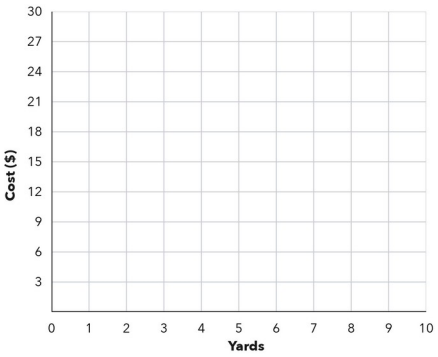
Hint *Which quantity is x in the table?*

Point_____

5. Craft Ribbon. Ribbon costs $3 for every yard. Complete the table. Then plot the points on the grid.

Hint *Each row of the table is one point.*

Yards (*x*)	2	5	8
Cost ($) (*y*)			



6. Corn Rows. A garden plants 18 corn seeds in every row. Write the ordered pair for 5 rows. Then tell what it means.

Hint *Multiply 5 by 18.*

Pair_____

7. From Pairs to a Pattern. A table gives the pairs (1, 5), (2, 10), (3, 15).

Hint *Compare each y with its x.*

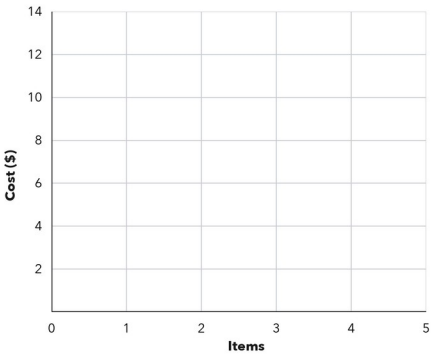
a. Describe the rule. _____

b. What shape do the points make? _____

c. Write the pair for $x = 7$. _____

8. With a Fee. A service charges $4 plus $2 for each item. List the pairs for 1, 2 and 3 items. Plot them. Where does the line meet the *y*-axis?

y-axis point_____



FIND THE ERROR

explain the mistake, then fix it

9. Jonah's Work. A parking garage charges $5 per hour. Jonah plotted the points (15, 3) and (25, 5). Explain his mistake and give the correct points.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. A table row with $x = 4$ and $y = 20$ becomes the ordered pair –

A (20, 4) **B** (4, 20) **C** (4, 24) **D** (24, 4)

11. At $9 per ticket, 3 tickets give the ordered pair —

A (9, 3) **B** (3, 12) **C** (3, 27) **D** (27, 3)

SELF-CHECK CODE *find your answer · copy its letter into that problem's box · spell a math word*

(6, 300) G	(3, 75) R	(0, 4) H	(7, 35) P	(0, 0) Z	(90, 5) X	(75, 3) Q	(300, 6) J	(5, 90) A

#3	#4	#6	#7c	#8

CHECK YOURSELF	□ I can do this on my own	□ I need a little help	□ I have a question about #___