Name_____ Date_____ Period_____

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

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. $x = 4, y = 28$ _____

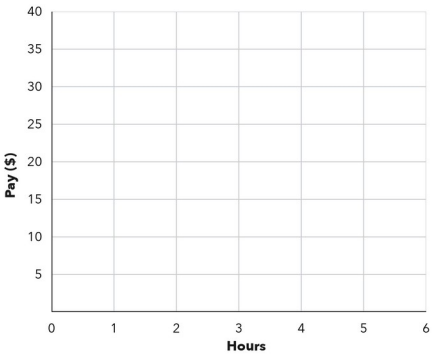
b. $x = 7, y = 2$ _____

c. $x = 0, y = 5$ _____

d. $x = 6, y = 54$ _____

2. **Babysitting Pay.** Lina earns $8 for every hour she babysits. Complete the table. Then plot the points on the grid.

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



3. **Elevator.** A glass elevator rises 12 feet every second. Write the ordered pair for 8 seconds. What does it mean?

Hint *Seconds come first; multiply by 12 for the feet.*

Pair_____

4. **Reading Log.** Marco's table shows x: 1, 2, 3, 4 days and y: 15, 30, 45, 60 pages read. For the third day he plotted (45, 3). What did he do wrong? Give the correct point.

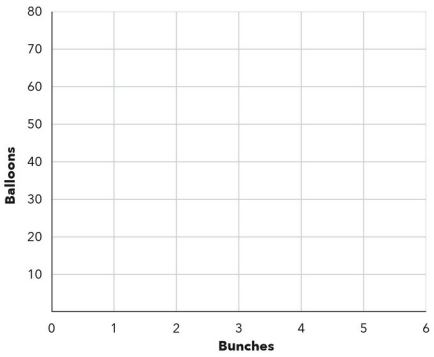
Hint *Which quantity is x in the table?*

Point_____

5. Party Balloons. A party store ties 16 balloons in every bunch. Complete the table. Then plot the points on the grid.

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

Bunches (*x*)	1	3	5
Balloons (*y*)			



6. Tile Rows. A floor has 14 tiles in every row. Write the ordered pair for 6 rows. Then tell what it means.

Hint *Multiply 6 by 14.*

Pair_____

7. From Pairs to a Pattern. A table gives the pairs (1, 4), (2, 8), (3, 12).

Hint *Compare each y with its x.*

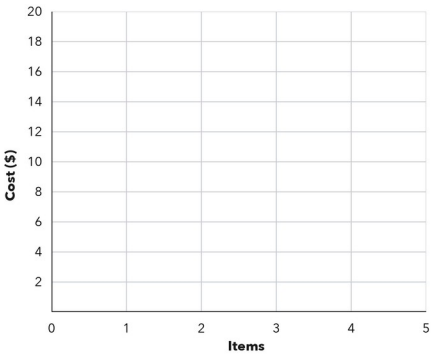
a. Describe the rule. _____

b. What shape do the points make? _____

c. Write the pair for $x = 9$. _____

8. With a Fee. A service charges \$3 plus \$5 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. Zuri's Work. A car wash charges \$6 per car. Zuri plotted the points (12, 2) and (30, 5). Explain her mistake and give the correct points.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. A table row with $x = 6$ and $y = 42$ becomes the ordered pair –

A (42, 6) **B** (6, 48) **C** (6, 42) **D** (7, 42)

11. At $8 per ticket, 5 tickets give the ordered pair –

A (8, 5) **B** (5, 40) **C** (40, 5) **D** (5, 13)

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

(8, 96) P	(0, 3) T	(84, 6) X	(45, 3) Q	(96, 8) J	(3, 45) O	(9, 36) N	(0, 0) Z	(6, 84) I

#3	#4	#6	#7c	#8

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