Name_____ Date_____ Period_____

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

Tables of Values

Learning target – I can build a table of values for a relationship between two variables. · 6.EE.C.9

REMEMBER

- A **table of values** pairs each input (x) with its output (y). The input goes in the first column.
- Use the **same rule** on every input.
- With a **fee**, multiply first, then add: $2 plus $4 per hour for 3 hours is $4 \times 3 + 2 = 14$.

WORKED EXAMPLE

A worker packs 9 boxes each hour: $b = 9h$. Find b for $h = 1, 2, 3$.

Step 1 Label the columns: h (hours) and b (boxes).

Step 2 $9 \times 1 = 9$, $9 \times 2 = 18$, $9 \times 3 = 27$

Answer **(1, 9), (2, 18), (3, 27)**

WORDS **table of values** *(tabla de valores)* · **input** *(entrada)* · **output** *(salida)*

PRACTICE

show your work · label units

1. Use each rule to find y.

a. $y = 7x$; $x = 6$ _____

b. $y = 3x + 4$; $x = 5$ _____

c. $y = x + 12$; $x = 8$ _____

d. $y = 15x$; $x = 4$ _____

2. **Bracelet Beads.** Nova strings 24 beads on every bracelet. Complete the table. Then find the beads for 8 bracelets.

Hint *Multiply each input by 24.*

Bracelets (x)	1	2	3	5
Beads (y)				

Answer_____ beads

3. **Soccer Snacks.** A coach packs 6 orange slices for every player. Complete the table. Which variable goes on the vertical axis?

Players (x)	3	5	7
Slices (y)			

Vertical axis_____

4. Water Cooler. A water cooler loses 7 cups of water every hour. How many cups does it lose in 8 hours?

Hint *Multiply each number of hours by 7.*

Show your work.

Answer_____ cups

5. Bike Rack. A bike rack holds 8 bikes in every section. Mila makes a table with sections in column 1 and bikes in column 2. Is that set up the right way?

Hint *Which quantity depends on the other?*

Show your work.

Right?_____

6. With a Fee. A rental costs $6 plus $4 for each hour. Complete the table. Then find the cost for 7 hours.

Hint *Multiply first, then add the fee.*

Hours (*x*)	1	2	4
Cost in $ (*y*)			

Answer_____ dollars

7. Read the Table. A table shows x: 1, 2, 3 and y: 15, 30, 45.

Hint *Compare each y with its x.*

a. Describe the rule in words. _____

b. Find y when $x = 8$. _____

8. Two Plans. Plan A charges $8 per hour. Plan B charges $12 plus $5 per hour. Complete the table. Which plan costs less for 8 hours, and how much?

Hours	1	2	3	5
Plan A ($)				
Plan B ($)				

8 hours_____

FIND THE ERROR

explain the mistake, then fix it

9. Darius's Work. A car travels 50 miles each hour. Darius made a table with x: 50, 100, 150 and y: 1, 2, 3. Explain his mistake and fix the table.

TEST PRACTICE

choose the best answer

10. A rule multiplies x by 8. When $x = 4$, y is –

A 12 **B** 32 **C** 84 **D** 2

11. A rule is "multiply by 5, then add 3." When $x = 2$, y is –

A 25 **B** 10 **C** 13 **D** 16

SELF-CHECK CODE

find your answer · copy its letter into that problem's box · spell a math word

46 Z	23 J	192 I	120 U	52 T	34 P	56 N	64 X	28 Q

#2	#4	#6	#7b	#8

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