Name_____ Date_____ Period_____

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

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. $y = 6x$; $x = 5$ _____

b. $y = 4x + 2$; $x = 3$ _____

c. $y = x + 9$; $x = 7$ _____

d. $y = 25x$; $x = 4$ _____

2. **Reading Marathon.** Malik reads 30 pages each hour. Complete the table. Then find the pages for 8 hours.

Hint *Multiply each input by 30.*

Hours (x)	1	2	3	5
Pages (y)				

Answer_____ pages

3. **Juice Crates.** A cafeteria stacks 18 juice cartons in every crate. Complete the table. Which variable goes on the vertical axis?

Crates (x)	2	3	5
Cartons (y)			

Vertical axis_____

4. Late Books. A library charges 25 cents for each day a book is late. What is the fine for a book that is 6 days late?

Hint *Multiply each number of days by 25.*

Show your work.

Answer_____ cents

5. Ferry Crossings. A ferry carries 45 cars on each crossing. Kofi makes a table with cars in column 1 and crossings 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 $5 plus $3 for each hour. Complete the table. Then find the cost for 6 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: 12, 24, 36.

Hint *Compare each y with its x.*

a. Describe the rule in words. _____

b. Find y when $x = 7$. _____

8. Two Plans. Plan A charges $6 per hour. Plan B charges $10 plus $4 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. Tavon's Work. A train travels 60 miles each hour. Tavon made a table with x: 60, 120, 180 and y: 1, 2, 3. Explain his mistake and fix the table.

_____

_____

_____

TEST PRACTICE

choose the best answer

10. A rule multiplies x by 6. When $x = 5$, y is –

A 11 **B** 30 **C** 56 **D** 65

11. A rule is "multiply by 4, then add 2." When $x = 3$, y is –

A 14 **B** 20 **C** 9 **D** 24

SELF-CHECK CODE

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

84 L	42 E	19 J	23 B	48 X	18 Q	33 Z	240 T	150 A

#2	#4	#6	#7b	#8

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