Name_____ Date_____ Period_____

LESSON 9-2 · SESSION 1 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Name Independent and Dependent Variables

Builds on Lesson 9-1 Session 1 · 6.EE.C.9

TODAY'S LESSON	You will plot nights first, like (3, 75), because nights are independent.
YOU NEED TO	Decide which quantity is *x* and which is *y*. **You will use it in Practice Form A, problems 2 and 4.**

STEPS TO FOLLOW

use these same steps on every problem

1. Make a **depends on** sentence with the two quantities.
2. The quantity after "depends on" is **independent**: *x*, the first number.
3. The quantity before "depends on" is **dependent**: *y*, the second number.

WATCH ME

the steps in action

Dogs walked and dollars earned.

Step 1 Dollars earned depends on dogs walked.

Step 2 Dogs walked is independent: *x*.

Step 3 Dollars earned is dependent: *y*.

Answer *x*: dogs walked. *y*: dollars earned.

TRY IT WITH HELP

fill in each step

1. Nights and minutes read.

Step 1 _____ depends on _____.

Step 2 Independent (*x*): _____

Step 3 Dependent (*y*): _____

2. Yards of ribbon and cost.

Step 1 _____ depends on _____.

Step 2 Independent (*x*): _____

Step 3 Dependent (*y*): _____

YOUR TURN

use the steps on your own

3. Write the dependent variable for each pair.

a. tickets bought, total cost: _____

b. minutes, gallons in a pool: _____

c. pages printed, ink used: _____

d. pounds of apples, price paid: _____

e. rows planted, seeds used: _____

f. hours charged, battery percent: _____

Build a Table of Values

Builds on Lesson 9-1 Session 2 · 6.EE.C.9

TODAY'S LESSON	You will fill a table for $9 per dog, then plot the points.
YOU NEED TO	Use a rule to find y for each x, like $9 \times 3 = 27$. **You will use it in Practice Form A, problems 2, 5, and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. Write the **rule**, like $y = 9x$.
2. **Put in** each x-value.
3. **Compute** and write each y-value in the table.

WATCH ME

the steps in action

The rule is $y = 6x$. Find y for $x = 1, 2, 3$.

Step 1 $y = 6x$

Step 2 $6 \times 1, 6 \times 2, 6 \times 3$

Step 3 y: 6, 12, 18

Answer **(1, 6), (2, 12), (3, 18)**

TRY IT WITH HELP

fill in each step

4. Ribbon costs $3 a yard. Find y for $x = 2$ and 4.

Step 1 Rule: $y =$ _____x

Step 2 3×2 and $3 \times$ _____

Step 3 y: _____ and _____

5. A $5 fee plus $3 per item. Find y for $x = 1$ and 2.

Step 1 Rule: $y = 3x +$ _____

Step 2 $3 \times 1 + 5$ and $3 \times$ _____ $+ 5$

Step 3 y: _____ and _____

YOUR TURN

use the steps on your own

6. The rule is $y = 7x$. Find y.

a. $x = 2$: _____ **b.** $x = 5$: _____ **c.** $x = 0$: _____

d. $x = 10$: _____ **e.** $x = 8$: _____ **f.** $x = 3$: _____

READY CHECK

a problem like the one in today's lesson

7. Pay is $9 for each dog. Which pair belongs in the table?

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

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