Name_____ Date_____ Period_____

LESSON 9-3 · SESSION 2 · 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 name hours as independent and cost as dependent for a $9-an-hour paddleboard.
YOU NEED TO	Decide which quantity depends on the other, like cost depends on hours. **You will use it in Practice Form A, problem 2.**

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**.
3. The quantity before "depends on" is **dependent**.

WATCH ME

the steps in action

Hours worked and total pay.

Step 1 Total pay depends on hours worked.

Step 2 Hours worked is independent.

Step 3 Total pay is dependent.

Answer **I: hours worked. D: total pay.**

TRY IT WITH HELP

fill in each step

1. Boxes packed and total crayons.

Step 1 _____ depends on _____.

Step 2 Independent: _____

Step 3 Dependent: _____

2. Days rented and rental cost.

Step 1 _____ depends on _____.

Step 2 Independent: _____

Step 3 Dependent: _____

YOUR TURN

use the steps on your own

3. Write the dependent variable for each pair.

a. guests, pizzas needed: _____

b. minutes jogging, calories burned: _____

c. tickets bought, total cost: _____

d. plants watered, water used: _____

e. weeks saving, money saved: _____

f. lawns mowed, pay earned: _____

Write Expressions with Variables

Builds on Lesson 6-5 Session 1 · 6.EE.A.2a

TODAY'S LESSON	You will write $c = 30h + 75$ for \$30 an hour plus a \$75 fee.
YOU NEED TO	Turn words like "\$16 an hour for h hours" into $16h$. **You will use it in Practice Form A, problems 1, 3, and 5.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the **rate**: the amount for each one.
2. Write the rate **next to** the letter, like $16h$.
3. Add any **one-time** amount, like a fee.

WATCH ME

the steps in action

\$8 per hour for h hours, plus a \$20 fee.

Step 1 Rate: \$8 per hour.

Step 2 $8h$

Step 3 $8h + 20$

Answer **$8h + 20$**

TRY IT WITH HELP

fill in each step

4. t tickets at \$12 each.

Step 1 Rate: \$_____ per ticket.

Step 2 Write: _____

Step 3 One-time amount: _____. Expression: $12t$

5. m miles at \$3 each, plus a \$10 fee.

Step 1 Rate: \$_____ per mile.

Step 2 Write: _____

Step 3 Add the fee: _____

YOUR TURN

use the steps on your own

6. Write an expression. Use the letter given.

a. w weeks at \$15 a week: _____

b. p packs of 24 markers: _____

c. g games at 4 points, plus 15: _____

d. h hours at \$6, plus \$20: _____

READY CHECK

a problem like the one in today's lesson

7. A gym costs a \$20 fee plus \$15 a month. Which is the cost for m months?

A $20m + 15$ **B** $15m + 20$ **C** $35m$ **D** $15 + 20 + m$

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