Name_____ Date_____ Period_____

LESSON 9-4 · SESSION 1 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Substitute into Expressions

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

TODAY'S LESSON	You will put $x = 5$ into $y = 9x + 2$ to find y.
YOU NEED TO	Replace a letter with a number and find the value, like $5k - 8$ when $k = 6$. **You will use it in Practice Form A, problems 1 and 7.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Replace** the letter with its number.
2. **Multiply** first.
3. Then **add** or subtract.

WATCH ME

the steps in action

Find $5k - 8$ when $k = 6$.

Step 1 $5 \times 6 - 8$

Step 2 $5 \times 6 = 30$

Step 3 $30 - 8 = 22$

Answer **22**

TRY IT WITH HELP

fill in each step

1. Find $3k + 12$ when $k = 6$.

Step 1 $3 \times$ _____ $+ 12$

Step 2 $3 \times 6 =$ _____

Step 3 $18 + 12 =$ _____

2. Find $100 - 4k$ when $k = 6$.

Step 1 $100 - 4 \times$ _____

Step 2 $4 \times 6 =$ _____

Step 3 $100 - 24 =$ _____

YOUR TURN

use the steps on your own

3. Find each value when $k = 6$.

a. $9k =$ _____

b. $k + 17 =$ _____

c. $48 \div k =$ _____

d. $2k + 5 =$ _____

e. $7k - 2 =$ _____

f. $10k + 1 =$ _____

Write Equations from Situations

Builds on Lesson 9-3 Session 2 · 6.EE.C.9

TODAY'S LESSON	You will write $c = 24t$ for 24 cookies on every tray.
YOU NEED TO	Turn a rate like "18 candles every hour" into $y = 18x$. **You will use it in Practice Form A, problems 2, 3, and 4.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the **rate**: the amount for each one.
2. Write the **output** letter, then =.
3. Write the rate **times** the input letter.

WATCH ME

the steps in action

$9 for each ticket. Use *x* for tickets and *y* for dollars.

Step 1 Rate: $9 per ticket.

Step 2 $y =$

Step 3 $y = 9x$

Answer $y = 9x$

TRY IT WITH HELP

fill in each step

4. 12 eggs in each carton. Use *c* for eggs and *n* for cartons.

Step 1 Rate: _____ eggs per carton.

Step 2 Output letter: _____ =

Step 3 Equation: $c =$ _____

5. 55 miles each hour. Use *m* for miles and *h* for hours.

Step 1 Rate: _____ miles per hour.

Step 2 Output letter: _____ =

Step 3 Equation: $m =$ _____

YOUR TURN

use the steps on your own

6. Write an equation. Use *x* for the input and *y* for the output.

a. $2.50 per pound: _____

b. 4 wheels per car: _____

c. 30 pages per day: _____

d. $7 per ticket: _____

e. 60 minutes per hour: _____

f. 16 ounces per pound: _____

READY CHECK

a problem like the one in today's lesson

7. Keisha rows 40 meters every minute. Which equation gives meters *m* in *n* minutes?

A $n = 40m$ **B** $m = 40n$ **C** $m = n + 40$ **D** $m = 40 \div n$

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