Name _____ Date _____ Period _____

LESSON 9-4 · WARM-UP

Warm-Up Practice

Apply Two-Variable Relationships to Solve Problems

THE MOVE

what this page practices

Use y = (rate)x in both directions

Given x, multiply to find y. Given y, divide by the rate to find x. The rate may be a decimal.

WORKED MODEL

we do this one together

Step 1	Muffins cost $3 each, so y = 3x.
Step 2	Cost of 7 muffins: y = 3 × 7 = _____
Step 3	Now go the other way. You have $24, so 24 = 3x.
Step 4	x = 24 ÷ 3 = _____, so you can buy _____ muffins.

YOUR TURN

8 items · about 10 minutes

1. y = 3x. Find y when x = 9. y = _____

ANSWER _____

2. y = 3x. If y = 36, then x = _____

ANSWER _____

3. y = 12x. Find y when x = 5. y = _____

ANSWER _____

4. y = 7x. If y = 63, then x = _____

ANSWER _____

5. A notebook costs $1.50, so y = 1.5x. Find the cost of 6 notebooks: $_____

ANSWER _____

6. Apples cost $0.75 each, so y = 0.75x. You spend $6.00. x = _____ apples

ANSWER _____

7. Tickets cost $8 each and you have $50. You can buy _____ tickets, with $_____ left over.

ANSWER _____

8. Beads cost $2 each. Write the equation: y = _____ You have $30, so you can buy _____ beads.

ANSWER _____