

Writing and Evaluating Expressions Exit Quiz

Multiple Choice

1. The phrase “the difference of 5 and a number” as a variable expression is:

a.) $5 - x$

b.) $x - 5$

c.) $\frac{x}{5}$

d.) $5x$

2. The phrase “the quotient of 40 and the product of a number and -8” as a variable expression is:

a.) $\frac{-8x}{40}$

b.) $40 - 8x$

c.) $\frac{40}{-8x}$

d.) $8x - 40$

Evaluate expression to find the missing values in the tables.

3.

x	$x^2 + 2$
1	
2	
3	
4	
5	
6	

x	$x^2 + 2$
1	
2	
3	
4	
5	
6	

4. Solve the following problem.

10 friends went to the local restaurant for dinner. Each of them ordered a drink and meal, 3 ordered an appetizer, and 6 ordered cake for dessert. What is the cost of the bill if a drink costs \$3, a meal costs \$20, an appetizer costs \$5, and a slice of cake costs \$4?

5. Evaluate expression for the given values of the variable.

$$\frac{x + y}{5} - \frac{x - y}{2} + (4x - 3y) =$$

$$x = 16 \quad y = 4$$

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ANSWERS

Multiple choices

1. The phrase “the difference of 5 and a number” as a variable expression is:

a.) $5 - x$

b.) $x - 5$

c.) $\frac{x}{5}$

d.) $5x$

2. The phrase “the quotient of 40 and the product of a number and -8” as a variable expression is:

a.) $\frac{-8x}{40}$

b.) $40 - 8x$

c.) $\frac{40}{-8x}$

d.) $8x - 40$

Evaluate expression to find the missing values in the tables.

3.	x	$x^2 + 2$
	1	
	2	
	3	
	4	
	5	
	6	

	x	$x^2 + 2$
	1	3
	2	6
	3	11
	4	18
	5	27
	6	38

4. Solve the following problem.

10 friends went to the local restaurant for dinner. Each of them ordered a drink and meal, 3 ordered an appetizer, and 6 ordered cake for dessert. What is the cost of the bill if a drink costs \$3, a meal costs \$20, an appetizer costs \$5, and a slice of cake costs \$4?

$d = \text{drink}$ $m = \text{meal}$ $a = \text{appetizer}$ $b = \text{dessert}$
 \$3 \$20 \$5 \$4

$$\begin{aligned}
 &10d + 10m + 3a + 6b = \\
 &= 10 * 3 + 10 * 20 + 3 * 5 + 6 * 4 = \\
 &= 30 + 200 + 15 + 24 = \\
 &= 230 + 15 + 24 = \\
 &= 245 + 24 = \\
 &= 269
 \end{aligned}$$

The cost of the bill is \$269.

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5. Evaluate expression for the given values of the variable.

$$\frac{x + y}{5} - \frac{x - y}{2} + (4x - 3y) =$$

$$x = 16 \quad y = 4$$

$$\frac{x + y}{5} - \frac{x - y}{2} + (4x - 3y) =$$

$$= \frac{16 + 4}{5} - \frac{16 - 4}{2} + (4 * 16 - 3 * 4) =$$

$$= \frac{20}{5} - \frac{12}{2} + (64 - 12) =$$

$$= 4 - 6 + 52 =$$

$$= -2 + 52 =$$

$$= \mathbf{50}$$

Name: _____ Period: _____ Date: _____

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