

Variables and Expressions Exit Quiz

Multiple Choice

1. Which of the following is not a variable expression?

a.) $a + 9b$

b.) $3x + 6y$

c.) $12 + 3z$

d.) $24 \div 4$

2. What is the value of the expression $15x - 4y$ when $x = 2$ and $y = 6$

a.) 12

b.) 6

c.) 2

d.) 24

3. Write an algebraic expression for each verbal phrase.

a. The product of x and 7 decreased by 34.

b. The quotient of 45 and x increased by 6

4. Write each as a verbal expression.

a. $x - 216$

b. $x \div 15$

5. If $x = 4$, $y = 5$, and $z = 12$, evaluate the following by substituting these values into the following expression.

a. $12x - 3y + 3z + 44 =$

b. $\frac{64}{x} - \frac{25}{y} + 2z + 12 =$

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ANSWERS

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d.) $24 \div 4$

2. What is the value of the expression $15x - 4y$ when $x = 2$ and $y = 6$

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b.) 6

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3. Write an algebraic expression for each verbal phrase.

a. The product of x and 7 decreased by 34.

$7x - 34$

b. The quotient of 45 and x increased by 6

$\frac{45}{x} + 6$

4. Write each as a verbal expression.

a. $x - 216$

a number minus 216

b. $x \div 15$

x divided by 15

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5. If $x = 4$, $y = 5$, and $z = 12$, evaluate the following by substituting these values into the following expression.

a. $12x - 3y + 3z + 44 =$

$$\begin{aligned}12x - 3y + 3z + 44 &= \\&= 12 * 4 - 3 * 5 + 3 * 12 + 44 = \\&= 48 - 15 + 36 + 44 = \\&= 33 + 80 = \\&= \mathbf{113}\end{aligned}$$

b. $\frac{64}{x} - \frac{25}{y} + 2z + 12 =$

$$\begin{aligned}\frac{64}{x} - \frac{25}{y} + 2z + 12 &= \\&= \frac{64}{4} - \frac{25}{5} + 2 * 12 + 12 = \\&= 16 - 5 + 24 + 12 = \\&= 11 + 36 = \\&= \mathbf{47}\end{aligned}$$