**Multiple Choice**

|  |  |
| --- | --- |
| **1.** | Which of the following is not a variable expression? |
|  | a.) $ a+9b$ | b.) $ 3x+6y$ |
|  | c.) $ 12+3z$ | d.) $ 24÷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.** | $$x÷15$$ |
|  |   |

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

**ANSWERS**

**Multiple choices**

|  |  |
| --- | --- |
| **1.** | Which of the following is not a variable expression? |
|  | a.) $ a+9b$ | b.) $ 3x+6y$ |
|  | c.) $ 12+3z$ | d.) $ 24÷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. |
|  | $$7x-34$$ |
| **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.** | $$x÷15$$ |
|  |  $ x$ divided by 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.** | $$\frac{64}{x}-\frac{25}{y}+2z+12=$$ |
|  | $$ 12x-3y+3z+44=$$$$=12\*4-3\*5+3\*12+44=$$$$=48-15+36+44=$$$$=33+80=$$$$=113$$ |  | $$ \frac{64}{x}-\frac{25}{y}+2z+12=$$$$=\frac{64}{4}-\frac{25}{5}+2\*12+12=$$$$=16-5+24+12=$$$$=11+36=$$$$=47$$ |