**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.** | $$x$$ | $$x^{2}+2$$ |  | $$x$$ | $$x^{2}+2$$ |
|  | $$1$$$$2$$$$3$$$$4$$$$5$$$$6$$ |  |  | $$1$$$$2$$$$3$$$$4$$$$5$$$$6$$ |  |

**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.**

|  |  |
| --- | --- |
|  | $$\frac{x+y}{5}-\frac{x-y}{2}+\left(4x-3y\right)=$$$$x=16 y=4$$ |
|  |  |

**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.** | $$x$$ | $$x^{2}+2$$ |  | $$x$$ | $$x^{2}+2$$ |
|  | $$1$$$$2$$$$3$$$$4$$$$5$$$$6$$ |  |  | $$1$$$$2$$$$3$$$$4$$$$5$$$$6$$ | $$3$$$$6$$$$11$$$$18$$$$27$$$$38$$ |

**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**? |
|  | $$d=drink m=meal a=appetizer b=dessert$$$𝟑 $𝟐𝟎 $𝟓 $**4** $$ 10d+10m+3a+6b=$$$$=10\*3+10\*20+3\*5+6\*4=$$$$=30+200+15+24=$$$$=230+15+24=$$$$=245+24=$$$$=269$$The cost of the bill is $269. |

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

|  |  |
| --- | --- |
|  | $$\frac{x+y}{5}-\frac{x-y}{2}+\left(4x-3y\right)=$$$$x=16 y=4$$ |
|  | $$ \frac{x+y}{5}-\frac{x-y}{2}+\left(4x-3y\right)=$$$$=\frac{16+4}{5}-\frac{16-4}{2}+\left(4\*16-3\*4\right)=$$$$=\frac{20}{5}-\frac{12}{2}+\left(64-12\right)=$$$$=4-6+52=$$$$=-2+52=$$$$=50$$ |