**Multiple Choice**

|  |  |
| --- | --- |
| **1.** | What is the value of the expression $2^{3}\*3-4+1? $  |
|  | **a.)** $ 15$ | **b.)** $ 21$ |
|  | **c.)** $ 25$ | **d.)** $ 24$ |

|  |  |
| --- | --- |
| **2.** | What is the value of the expression $ 150\*3-4+\left(23\*3-8^{2}\right)^{2} ? $  |
|  | **a.)** $471$ | **b.)** $459$ |
|  | **c.)** $554$ | **d.)** $240$ |

**Find the value of numerical expression. Follow the order of operations when finding each value.**

|  |  |
| --- | --- |
| **3.** | $$ 100÷5-4\*3+\left(3\*3-2^{2}\right)^{2}$$ |
|  |  |

|  |  |
| --- | --- |
| **4.** | $$ \left[\left(343÷7^{2}\right)+7\*10\right]^{2}-\left(216÷6^{2}-1\right)=$$ |
|  |  |

**5. Solve the following problem**

|  |  |
| --- | --- |
|  | Colin has $2,000 and he invested in stock. In one day, his money was doubled. The next day he got a profit of $1,000 and later loss of $456. Write an expression for this and determine his present amount. |
|  |  |

**ANSWERS**

**Multiple Choice**

|  |  |
| --- | --- |
| **1.** | What is the value of the expression $2^{3}\*3-4+1? $  |
|  | **a.)** $ 15$ | **b.)** $ 21$ |
|  | **c.)** $ 25$ | **d.)** $ 24$ |

|  |  |
| --- | --- |
| **2.** | What is the value of the expression $ 150\*3-4+\left(23\*3-8^{2}\right)^{2} ? $  |
|  | **a.)** $471$ | **b.)** $459$ |
|  | **c.)** $554$ | **d.)** $240$ |

**Find the value of numerical expression. Follow the order of operations when finding each value.**

|  |  |
| --- | --- |
| **3.** | $$ 100÷5-4\*3+\left(3\*3-2^{2}\right)^{2}$$ |
|  | $$ 100÷5-4\*3+\left(3\*3-2^{2}\right)^{2}=$$$$=20-12+\left(3\*3-4\right)^{2}=$$$$=20-12+\left(9-4\right)^{2}=$$$$=20-12+5^{2}=$$$$=20-12+25=$$$$=8+25=$$$$=33$$ |

|  |  |
| --- | --- |
| **4.** | $$ \left[\left(343÷7^{2}\right)+7\*10\right]^{2}-\left(216÷6^{2}-1\right)=$$ |
|  | $$ \left[\left(343÷7^{2}\right)+7\*10\right]^{2}-\left(216÷6^{2}-1\right)=$$$$=\left[\left(343÷49\right)+7\*10\right]^{2}-\left(216÷36-1\right)=$$$$=\left[7+70\right]^{2}-\left(6-1\right)=$$$$=77^{2}-5=$$$$=5,929-5=$$$$=5,924$$ |

**5. Solve the following problem**

|  |  |
| --- | --- |
|  | Colin has $2,000 and he invested in stock. In one day, his money was doubled. The next day he got a profit of $1,000 and later loss of $456. Write an expression for this and determine his present amount. |
|  | $$ 2,000\*2+1,000-456=$$$$=4,000+1,000-456=$$$$=5,000-456=$$$$=4,544$$ |