

Algebra 1 Bellwork Tuesday, September 8, 2015

Write a variable expression to model each statement exactly as written.

1. Four more than an unknown number.

$$A + 4$$

2. The product of an unknown number and three.

$$Q \cdot 3$$

3. The quotient of an unknown number and twelve.

$$\frac{W}{12}$$

4. The difference of eight and an unknown number.

$$8 - C$$

5. Six less than an unknown number.

$$G - 6$$

6. The sum of an unknown number and four.

$$M + 4$$

7. The product of seven and the quantity two minus an unknown number.

$$7(2 - K)$$

8. Nine less than the product of five and an unknown number.

$$5E - 9$$

Evaluate each expression for $A = 3$, $B = 6$, and $C = -2$

Do NOT use a calculator.

9. $A^2 - C$

$$\begin{aligned} &= (3)^2 - (-2) \\ &= 9 + 2 \\ &= 11 \end{aligned}$$

10. $BC - A$

$$\begin{aligned} &= (6)(-2) - (3) \\ &= -12 - 3 \\ &= -15 \end{aligned}$$

11. $\frac{B+9C}{A}$

$$\begin{aligned} &= \frac{(6) + 9(-2)}{(3)} \\ &= \frac{6 + -18}{3} = \frac{-12}{3} = -4 \end{aligned}$$

12. $-C - B$

$$\begin{aligned} &= -(-2) - (6) \\ &= 2 - 6 \\ &= -4 \end{aligned}$$