

Find the value of each expression using the ORDER OF OPERATIONS:

$$72 \div 12 \cdot 3$$

Handwritten solution showing the order of operations:

Red checkmark under $72 \div 12$, with a red '6' written below it.

Blue checkmark under $6 \cdot 3$, with a blue '18' circled below it.

Find the value of each expression using the ORDER OF OPERATIONS:

$$4 \cdot 3 + 8 \div 2 - 5$$

Handwritten solution showing the order of operations:

Red checkmark under $4 \cdot 3$, with a red '12' written below it.

Green checkmark under $8 \div 2$.

$$12 + 4 - 5$$

Handwritten solution showing the order of operations:

Blue checkmark under $12 + 4$, with a blue '16' written below it.

Final result: $16 - 5 = 11$, with the '11' circled.

Find the value of each expression using the ORDER OF OPERATIONS:

$$(36 \div 6) \div (6 - 4)$$

$$6 \div (6 - 4)$$

$$6 \div 2 = 3$$

Find the value of each expression using the ORDER OF OPERATIONS:

$$7[(29 + 11) - 3(16 - 9)]$$

$$7[40 - 3(16 - 9)]$$

$$7[40 - 3(7)]$$

$$7[40 - 21]$$

$$7(19) = 133$$

Evaluate each expression if $a = 12$, $b = 11$, $k = 8$, and $s = 14$:

$$2a - 9$$

$$2(12) - 9$$

$$24 - 9$$

$$15$$

Evaluate each expression if $a = 12$, $b = 11$, $k = 8$, and $s = 14$:

$$b + (a - k)$$

$$11 + (12 - 8)$$

$$11 + 4$$

$$15$$

Evaluate each expression if $a = 12$, $b = 11$, $k = 8$, and $s = 14$:

$$3a + 2b - k$$

$$3(12) + 2(11) - 8$$

$$36 + 2(11) - 8$$

$$36 + 22 - 8$$

$$58 - 8$$

$$(50)$$

Simplify each expression:

$$1a + 9a$$

$$10a$$

Simplify each expression:

$$2a + 3a + 10$$

$$5a + 10$$

Simplify each expression:

$$8 + 36y - 14y$$

$$8 + 22y$$

Simplify each expression:

$$4(a + 3) + 10a$$

$$4a + 12 + 10a$$

$$14a + 12$$

Simplify each expression:

$$7(m + 13) + 5(2m + 3)$$

$$7m + 91 + 10m + 15$$

$$17m + 106$$

Solve each equation using the inverse operation:

$$b + 48 = 55$$

$$-48 \quad -48$$

$$b = 7$$

Solve each equation using the inverse operation:

$$y - 57 = 72$$

$$+57 \quad +57$$

$$y = 129$$

Solve each equation using the inverse operation:

$$\begin{array}{r} 12 \\ 32 \overline{) 384} \\ \underline{-32} \\ 64 \\ \underline{-64} \\ 0 \end{array}$$

$$\frac{32m}{32} = \frac{384}{32}$$

$$m = 384 \div 32$$

$$m = 12$$

Solve each equation using the inverse operation:

$$\begin{array}{r} 32 \\ \times 21 \\ \hline 32 \\ 640 \\ \hline 672 \end{array}$$

$$32 = p \div 21$$

$$\cdot 21 \quad \cdot 21$$

$$p = 32 \cdot 21$$

$$p = 672$$

Translate each phrase into an algebraic expression:

Ten less than y

$$y - 10$$

Translate each phrase into an algebraic expression:

Twice a number increased by 8

Let n be a number.

$$2n + 8$$

State whether each inequality is TRUE or FALSE for the given value:

$$2 \leq 8x - 1 \quad (x = 2)$$

$$2 \leq 8(2) - 1$$

$$2 \leq 16 - 1$$

$$2 \leq 15$$

TRUE!

State whether each inequality is TRUE or FALSE for the given value:

$$14 \geq m + 6 \quad (m = 6)$$

$$14 \geq 6 + 6$$

$$14 \geq 12$$

TRUE!

State whether each inequality is TRUE or FALSE for the given value:

$$2 < 2x - 5 \quad (x = 3)$$

$$2 < 2(3) - 5$$

$$2 < 6 - 5$$

$$2 < 1$$

FALSE!