

Please evaluate each expression.

1) $\frac{16 - 3 \cdot 2}{1 + 4}$ 1) _____

2) $21 + [6 - 12 \div 3]$ 2) _____

3) $\frac{3}{4}(11 - 7)^2$ 3) _____

Please evaluate each expression if $a = 3$, $b = -4$, and $c = \frac{1}{4}$.

4) $a^2(b - a)$ 4) _____

5) $\frac{8c + ab}{c}$ 5) _____

Please complete the table below by placing a check mark or X to indicate all sets of numbers that apply to the value of each expression.

		R real	I irrational	Q rational	Z integer	W whole	N natural
6)	0.4						
7)	$\sqrt{\frac{1}{4}}$						
8)	$-\sqrt{7}$						
9)	-15						

10) What are the additive and multiplicative inverses of $1\frac{2}{3}$? 10) Additive: _____

Multiplicative: _____

Please name the property illustrated by each equation or statement.

11) If $x - 2 = 5$, then $x = 7$.

11) _____

12) $(3 \cdot 4) \cdot 9 = 3 \cdot (4 \cdot 9)$

12) _____

13) If $a = b$ and $b = -2$, then $a = -2$.

13) _____

Please solve each equation or formula for the specified variable.

14) $y(x+z) - v = 3d$ for y

14) _____

15) $\frac{10z+x}{y} = 4$ for x

15) _____

Please solve each equation.

16) $6m - 4 = -46$

16) _____

17) $\frac{d}{2} + \frac{d}{4} = 3$

17) _____

18) $5 - (2w - 8) = 6w - 9$

18) _____

19) $|x - 3| = 1$

19) _____

20) $2|3e - 2| = 14$

20) _____

21) $|3x - 8| = -15$

21) _____

Please solve each inequality. Then graph the solution set on a number line.

22) $-3y - 4 \geq -7$

22) _____



23) $|2x + 3| \geq 11$

23) _____



24) $|3x - 4| < -7$

24) _____



25) $2a + 12 \leq 6$ or $3a - 1 > -13$

25) _____

