

1) Give an example of an expression, equation, and inequality. How can you identify one from the other?

Circle the values that provide a solution or solutions to the given equation or inequality.

2) $m - 16 = 6$ {19, 20, 22, 23}

3) $8x > 30$ {3, 4, 5, 6}

4) $\frac{x}{6} = 14 - 2$ {36, 48, 72, 84}

5) $5w + 2w \geq 14$ {1, 2, 3, 4}

Solve for the variable. Show your work and don't forget to check your answer!

6) $8x = 78 + 2$

7) $\frac{t}{2} = 9^2$

8) $3(t + 3) - 9 = 51$

9) $2x + 10 - x + 1 = 23$

10) $z - 45 = 60$

11) $t - (6^2 + 0.48) = 0.35$

12) $7 + x - 3 = 5(4)$

13) $x \bullet 3^3 = 81$

14) Gabriel had \$210 yesterday. Today he earned d dollars for mowing the neighbor's lawn. He now has \$245. Circle the equation or equations that accurately represent Gabriel's situation.

$$210 - d = 245$$

$$210 + d = 245$$

$$245 = d + 210$$

$$245 = 210d$$

$$d - 210 = 245$$

$$245 - d = 210$$

15) The perimeter of a square is 64 inches. Write an equation (use x for the side length) and solve for the side length of the square.

Equation: _____

Solution: _____

16) Mr. Vander Heyden's tie costs 3 times as much as Mr. Bentley's tie. Together they spent \$128. Write an equation and solve to determine the price of each teacher's ties.


Equation: _____


Cost of Mr. Vander Heyden's tie: _____

Cost of Mr. Bentley's tie: _____

Graph the following inequalities on a number line.

17) $10h + 4h > 3^3 + 15$ 

18) $m + 16 < 26$ 

19) $\frac{x}{2} \leq 6$ 

20) $5h \geq 4(10)$ 

21) The school auditorium can fit no more than 215 people. Inequality: _____



22) Sally must sell more than 5 coupon cards to attend the event. Inequality: _____

