Test Date: THURSDAY, NOVEMBER 8th

## ONE-STEP EQUATIONS. SOLVE. SHOW ALL WORK FOR FULL CREDIT!

$$3 \times \frac{x}{3} = 8 \times 3$$

$$\frac{-2x = -6}{-2}$$

$$X = 3$$

$$\frac{2}{3} \div \frac{2}{3}x = 8 \div \frac{2}{3}$$

$$\frac{2}{1} \times \frac{2}{3} = \frac{24}{2}$$

$$X = 12$$

## TWO-STEP EQUATIONS. SOLVE. SHOW ALL WORK FOR FULL CREDIT!

$$2x + 6 = 8$$

$$-6 - 6$$

$$2x + 0 = 2$$

$$2 = 1$$

$$-\frac{2}{3}x + 6 = -1$$

$$-6 - 6$$

$$-\frac{2}{3}x + 6 - 7 \div \frac{2}{3}$$

$$\div \frac{2}{3} \times \frac{21}{2} \text{ or } |0.5|$$

$$4 + \frac{1}{5}x = -1$$

$$-4 - 4$$

$$0 + \frac{1}{5}x - \frac{5}{7} + \frac{1}{5}$$

$$\frac{5}{7} \times \frac{5}{7} = \frac{5}{7}$$

$$X = -25$$

$$\frac{\frac{x}{2} + 12 = -16}{-12}$$

$$\frac{-12}{2 \times \frac{X}{2} + 0} = -28 \times 2$$

$$X = -56$$

$$\frac{2}{5}x + 3 = 28$$

$$-3 - 3$$

$$\frac{2}{5}x + 0$$

$$\frac{25}{1} \times \frac{25}{5}$$

$$\frac{25}{1} \times \frac{5}{2}$$

$$X = \frac{125}{2} \text{ or } (62.5)$$

$$0.80x - 1.0 = 0.60$$
+1.0 +1.0
$$0.80x + 0 \quad 1.60$$

$$0.8$$

$$0.8$$

## DISTRIBUTE & SOLVE EQUATIONS. SOLVE. SHOW ALL WORK FOR FULL CREDIT!

3(2x+5) = 59	
6X + 15 - 15	59 -15
(x+0	44
6	6
(X -	22 or 7.3

$$2(6x - 1) = -38$$

$$12x - 2 = -38$$

$$+2 + 2$$

$$12x - 0 - 36$$

$$12$$

$$X = -3$$

$$-2(5+6x) = 110$$

$$-10-12x | 110$$

$$+10$$

$$0-12x | 120$$

$$-12$$

$$-12$$

$$X = -10$$

$$\frac{1}{2}(4x + 8) = 28$$

$$\frac{4}{2}x + \frac{8}{2} = 28$$

$$2x + 4 = 28$$

$$-4 = 24$$

$$2x + 6 = 24$$

$$x \neq 12$$

$$6(2x - 5) = 54$$

$$\begin{array}{c|c}
 12 = -2(3 + x) \\
 12 - 6 - 2x \\
 + 6 + 6
 \end{array}$$

$$\begin{array}{c|c}
 18 & 0 - 2x \\
 - 2 & -2
 \end{array}$$

## WORD PROBLEMS. WRITE AN EQUATION AND SOLVE. SHOW ALL WORK FOR FULL CREDIT!

The CMS band purchased new t-shirts and instruments. The cost for instruments was \$520. T-shirts cost \$20 per shirt. If the total cost of their purchase was \$1000, how many uniforms did they buy?

VARIABLE: how many uniforms

SOLVE.



The hotel you are staying in, charges a fee of \$15 for parking and \$3per day to use the gym. If your total bill was \$45, how many times did you go to the gym?

VARIABLE: how many times you go to the gym

SOLVE.

$$3x + 15 = 45$$

$$-15 - 15$$

$$3x + 0 = 30$$

$$3$$

$$x = 10$$

You went to the gym
10 times

Timmy is having his birthday party at SkyZone. It costs \$150 to rent a room and \$13 per person. The total bill for the party was \$371. How many friends did Timmy invite?

VARIABLE: how many friends

SOLVE.

$$\begin{array}{c|c}
 13x + 150 = 371 \\
 - 150 | -150 \\
 \hline
 13x + 0 | 221 \\
 \hline
 13 | 13
 \end{array}$$

