LEVEL: EMERGING

- 1) Which choice is *not* a step you would take to solve the equation $4 \frac{x}{2} = 0$?
 - a) Add -4 to both sides of the equation
 - b) Divide both sides by -2
 - c) Multiply each term by -2
 - d) Subtract 4 from both sides

COMBINING LIKE TERMS: Directions: Solve the equation. Check your solution.

2)
$$p + 2p - 3 = 6$$

3)
$$11w - 9 - 7w = 15$$

4)
$$6c - 8 - 2c = -16$$

USING THE DISTRIBUTIVE PROPERTY: Directions: Solve the equation. Check your solution.

5)
$$3 + 4(z + 5) = 31$$

6)
$$5m + 2(m + 1) = 23$$

7)
$$27 = 3c - 3(6 - 2c)$$

MULTIPLYING BY THE RECIPROCAL: Directions: Solve the equation. Check your solution.

8)
$$\frac{1}{3}(d+3) = 5$$

9)
$$4 = \frac{2}{9}(4y - 2)$$

$$10) - 32 = \frac{8}{7}(3w - 1)$$

4)
$$c = -2$$

SOLVING EQUATIONS: Directions: Solve the equation. Check your solution.

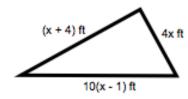
$$11)8.9 + 1.2(3a - 1) = 14.9$$

$$12) 1.6 = 7.6 - 5(k + 1.1)$$

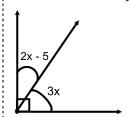
$$13)8.7 = 3.5m - 2.5(5.4 - 6m)$$

GEOMETRY: Directions: Find the value of x.

14) Perimeter = 24 feet



15) If two angles shown form a right angle, write and solve an equation to find the value of x and the measure of both angles.



16) A farmer bought a pig weighing 30 pounds. He expects it to gain 13 pounds a month, and he plans on selling the pig when it weighs approximately 212 pounds. How many months will it be before he can sell the animal?

LEVEL: MASTERY

17) James earns \$2.20 less than twice Greg's hourly wage. If James earns \$16.50 per hour, what is Greg's hourly wage?





