

## Activity 8: Words of Wisdom (Fill-in all the blanks and solutions!)

**Directions:** Solve each two-step equation. Find each answer in the answer column on the right and notice the letter next to it. Write that letter in the blank space above the number of the problem at the bottom of the page.



$$1. 2m + 2 = 12 \quad (m = 5)$$

**A** = 1

$$2. 9c - 4 = 41 \quad c =$$

**C** = 2

$$3. 6y - 11 = 61 \quad y =$$

**D** = 3

$$4. 3x + 6 = 15 \quad x =$$

**E** = 9

$$5. 14 = 2n - 4 \quad n =$$

**G** = -77

$$6. 3(a + 5) = 24 \quad a =$$

**H** = -28

$$7. y \div 3 - 4 = 0 \quad y =$$

**K** = -12

$$8. w \div 3 + 3 = 6 \quad w =$$

**N** = -8

$$9. s \div 7 + 8 = -3 \quad s =$$

**M** = -7

$$10. -4 + 11q = -92 \quad q =$$

**O** = 5

$$11. t \div 4 - 3 = -6 \quad t =$$

**P** = -4

$$12. 5(r + 4) = 45 \quad r =$$

**T** = 12

$$13. 1 + p \div 7 = -3 \quad p =$$

**U** = 0



**Question:** What anti-drug lesson might also be something a daddy fish would say to his son?

                         
6      1      10      3

                   
9      8      7

                               
13      2      12      11      5      4

## □ Solving Multi-Step Equations

The following equation is an example of a multi-step equation. As shown, one of the first things to do in a multi-step equation is to get all of the numbers together and all of the variables together. When more steps are involved in the equation, this task becomes slightly more difficult.

*Example:*  $\frac{5x - 1}{3} = 33$

**Solve for x:** Step #1—Multiply both sides by three to eliminate the fraction.

$$\frac{5x - 1}{3} \times 3 = 33 \times 3$$

Answer: 
$$\begin{array}{r} 5x - 1 = 99 \\ + 1 + 1 \\ \hline 5x = 100 \\ \div 5 \quad \div 5 \\ \hline x = 20 \end{array} \quad \begin{array}{l} \text{Step #2} \\ \text{Step #3} \end{array}$$