

Lesson 1.6 ~ Solving Multi-Step Equations

Name _____ Period _____ Date _____

Solve each equation and check your solution.

1. $3(2x + 4) = 60$

2. $5x + 1 = 8x - 23$

3. $45 = 5(3x - 6)$

4. $3(x + 2) = 4(x + 1)$

5. $6 - 3x = 2x - 24$

6. $7(2x - 3) = 7$

7. $3x + 5 = 5(x - 3)$

8. $4x + 17 = -2x + 23$

9. $10x - 9 = -2x - 69$

10. $15x = 12(x - 3)$

11. $6x + 3 = 2x + 3$

12. $5(x - 1) = 20(x - 10)$

13. Xavier spent \$84 on art supplies. The canvas for each of his paintings is an additional \$1. He plans to sell his paintings for \$8.

a. Write an equation that could be used to find the number of paintings (p) he will need to sell to break even.

b. Solve the equation from **part a**. Check the solution.