

UNIT 2 Equations

The Two-Step

When solving two-step equations, start by canceling out the number being added to or subtracted from the variable, then cancel the number that multiplies or divides that variable.

Example:

1. Cancel out the "2" by subtracting it from both sides.

$$3x + 2 = 14$$

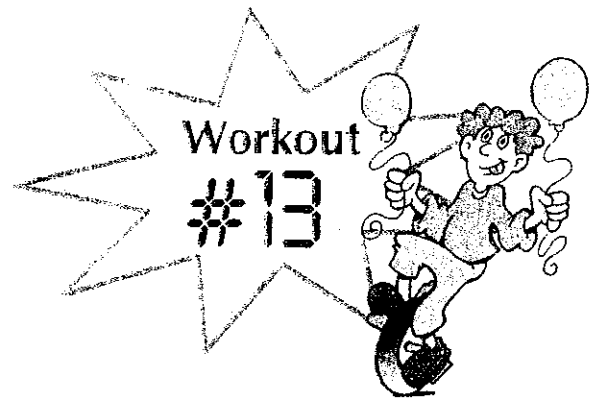
$$3x + 2 - 2 = 14 - 2$$

$$3x = 12$$

2. Divide both sides by "3" to cancel out the "3" leaving "x" by itself.

$$\frac{3x}{3} = \frac{12}{3}$$

$$x = 4$$



Directions: Solve the following equations: (Show all steps.)

1. $5x + 8 = 28$

2. $3x - 9 = -3$

3. $\frac{x}{4} + 2 = 5$

UNIT 2 Equations

Distributor Man

The distributive property tells us that $8(x - 3) = 8x - 24$.

Use the distributive property to remove the parentheses, then solve each equation.

1. $5(x - 3) = 30$

2. $7(y - 4) - 2y = -38$

3. $-2(z - 5) + 3(z - 1) = 9$

