Bell Work: Using words, describe each equation.

$$7x + 10 = 32$$

$$1) 7x + 10 = 32$$
 (2) $\frac{4}{3}x - 3 = 12$

Solving Equations

Solve each equation.

1.
$$5x + 4 = 2x + 10$$

 $-2x$ $-2x$
 $3x + 4 = 10$
 -4 -4
 $3x = 6$
 $3x = 2$

3.
$$4(d-3) = 2d$$

 $4d-12 = 2d$
 $-4d$ $-4d$
 $-12 = -2d$
 $-2d$
 $-2d$
 $-2d$
 $-2d$

Solve each equation. Check your answer.

5.
$$(x-3)-2=6-2(x+1)$$

 $x-3-2=6-2(x+1)$
 $x-3-2=6-2(x+1)$
 $x-3-2=6-2(x+1)$
 $x-5=4-2x$
 $x-5=4$
 $x-$

7.2(2c+1)-c=-13

$$4c+2-c=-13$$

 $3c+2=-13$
 -2
 $3c=-15$
 $3c=-5$

Write an equation to solve each problem.

9. Lisa and Beth have babysitting jobs. Lisa earns \$30 per week and Beth earns \$25 per week. How many weeks will it take for them to earn a total of \$275? x= weeks

30x+25x=275 55x=275 55 55 X=5 veeks 11. What two consecutive numbers have a sum of 53?

$$|st \pm = x = 26$$

 $2n0 \pm = x + 1 = 27$

$$|st^{\#} + 2nt^{\#} = 53$$

$$|x + x + 1| = 53$$

$$|2x + 1| = 53$$

$$|2x - 52|$$

$$|2x - 36|$$

Solve each formula for the indicated variable.

13.
$$A = \frac{1}{2}h(b_1 + b_2)$$
, for h

$$\frac{2A}{b_1 + b_2} = \frac{1}{b_1 + b_2}$$

$$\frac{2A}{b_1 + b_2} = \frac{1}{b_1 + b_2}$$

$$\frac{2A}{b_1 + b_2} = h$$

Solve each equation for y.

15.
$$\frac{3}{7}(y+2) = g$$

$$(\frac{3}{7}y + \frac{6}{7} = 9) 7$$

$$3y + 6 = 79$$

$$-6 - 6$$

$$3y - 79 - 3$$

$$3y-1 = 2$$

$$3y-1 = 2$$

$$+1 = 2$$

$$+1 = 1$$

$$3y = 2z + \frac{1}{3}$$

$$y = 2z + \frac{1}{3}$$

$$y = 2z + \frac{1}{3}$$