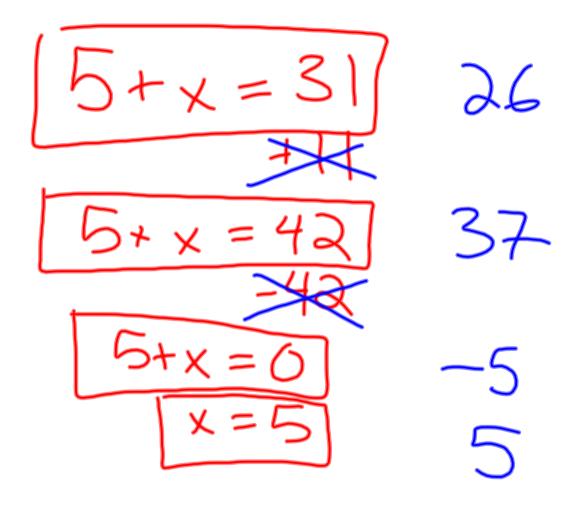
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4. #25 = 
$$\times$$
#100 =  $\times$ 

## Solving equations:

. Finds the value of a variable in a particular circumstance · Any mathematical operation (+, -, x, -: ...) can be done to both sides of an equation and the equation will still be Sec 3.1 and 3.2.notebook September 13, 2011



$$4+5=9$$
  
 $6(4+5)=6.9$   
 $6(4+5)+4=6.9+4$   
 $34+30+4=54+4$   
 $58=58$ 

$$4+5=9$$
 $-5$ 
 $4=9$ 

$$\frac{5a}{5} = \frac{10}{5}$$
  $\frac{x+2}{-2} = \frac{14}{-2}$   $\frac{x-1}{-2} = \frac{13}{5}$   $\frac{4}{5} = \frac{13}{5}$   $\frac{13}{5} = \frac{13}{5}$   $\frac{13}{5} = \frac{13}{5}$   $\frac{13}{5} = \frac{13}{5}$   $\frac{13}{5} = \frac{13}{$ 

## Solve the equation.

1. 
$$x + 16 = 25$$

**2.** 
$$n-9=17$$

3. 
$$-30 = w + 8$$

$$W = -38$$

**4.** 
$$y + 5 = -13$$

$$y = -18$$

**5.** 
$$a - 17 = -10$$

6. 
$$41 = 52 + m$$

$$-|| \leq m$$

$$5a+6=31$$
 $-6=25$ 
 $5a=5$ 
 $a=5$ 

## Solve the equation.

1. 3n + 14 = 35 -14 - 14 3n = 21 3 = 74. 9c - 5 = 13

**2.** 7y - 10 = 11

5. 
$$4.6 = 4m - 3.4$$

$$m=2$$
 $1.2 = 2.4 - 2.4 - 2.4 - 2.4 - 2.3 = -3.5 = -3.5$ 

3. 
$$14 = 9 - x$$
  
 $-9 - 9$   
 $-1. 5 = -x - 1$   
 $-5 = x$ 



- 22. Swimming Pool The capacity of a small children's swimming pool is 106 gallons of water. There are currently 15 gallons of water in the pool. You are filling the pool with water at a rate of 2 gallons per minute.
  - a. Write an equation that gives the amount y (in gallons) of water in the pool as a function of the number x of minutes from now.

Sunt of water = amount we started w/

## Homework:

p. 138, 18-48 by 3, 54

p. 144, 3-33 by 3, 38-44 even