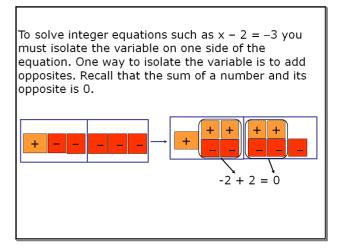
## 2.5 Solving Equations Containing Integers

p. 100

11-13-17



Oct 28-9:09 AM

Nov 12-8:29 AM

## Solve each question. Check each answer.

$$-6 + x = -7$$

$$-6 + x = -7$$
  
+ 6 + 6

Add 6 to both sides to isolate the variable.

## Check

$$-6 + x = -7$$

$$-6 + (-1) \stackrel{?}{=} -7$$

)  $\stackrel{?}{=}$  -7 Substitute -1 for x in the original equation.

$$-7 \stackrel{?}{=} -7$$

Solve each question. Check each answer.

-6 + x = -7

Check

Nov 12-8:38 AM Nov 12-8:29 AM

Solve each equation. Check each answer.

p + 5 = -3

Solve each equation. Check each answer. y - 9 = -40

Nov 12-8:30 AM

Nov 12-8:30 AM

Solve each equation. Check each answer.

$$-3 + x = -9$$

Solve each equation. Check each answer.

q + 2 = -6

Solve each equation. Check each answer.

$$y - 7 = -34$$

$$y - 7 = -34$$
 $+7 + 7$ 
 $y = -27$ 
 $-27 - 7 = -34$ 

Solve each equation. Check each answer.

$$\frac{b}{-5} = 6$$

$$-5 \cdot \frac{b}{-5} = 6 \cdot -5$$

$$b = -30$$

$$-30 \div -5 = 6$$

Nov 12-8:31 AM

Nov 12-8:31 AM

Solve each equation. Check each answer.

$$-400 = 8y$$

$$-\frac{400}{8} = 89$$

$$4 = -50$$

$$-50.8 = -40$$

Solve each equation. Check each answer.

$$\frac{c}{4} = -24$$

$$4 \cdot \frac{C}{4} = -24 \cdot 4$$

$$C = -96$$

$$-96 \div 4 = -24$$

Solve each equation. Check each answer.
$$-200 = 4x$$

$$-200 = 4x$$

$$-200 = 4x$$

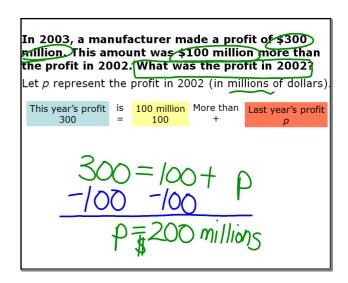
$$-4$$

$$4$$

$$-50 = x$$

$$x = -50$$

$$4(-50) = -2\infty$$



Nov 12-8:32 AM Nov 12-8:33 AM

This year the class bake sale made a profit of \$243. This was an increase of \$125 over last year. How much did they make last year?

Let x represent the money they made last year.

This year's profit is  $\frac{100 \text{ million}}{125}$  More than  $\frac{1}{x}$  Last year's profit  $\frac{1}{x}$   $\frac{1}$ 

Solve each equation. Check your answer.

1. -8y = -8002. x - 22 = -183.  $\frac{y}{7} = 7$ 4. w + 72 = -215. Last year a phone company had a loss of \$25 million. This year the loss is \$14 million more last year. What is this years loss?  $(-7) \bullet \qquad = 7 \quad \bullet (-7)$ 

Nov 12-8:33 AM Nov 12-8:33 AM

8. 
$$b-7=-16$$
 $+7$ 
 $+7$ 
 $b=-9$ 
 $-9-7=-16$ 

9. 
$$k+6=3$$
 $-6-6$ 
 $k=-3$ 
 $-3+6=3$ 

Nov 14-9:05 AM

Nov 14-9:07 AM

10. 
$$s + 2 = -4$$
 $-2 - 2$ 

$$S = -6$$
 $-6 + 2 = -4$ 

11. 
$$v + 14 = 10$$

$$-|4 - |4|$$

$$V = -4$$

$$-4 + |4 = 10$$

12. 
$$c + 8 = -20$$

$$-8 - 8$$

$$C = -28$$

$$-28 + 8 = -20$$

13. 
$$a-25=-5$$
  
 $+25+25$   
 $a=20$   
 $20-25=-5$ 

Nov 14-9:08 AM Nov 14-9:08 AM