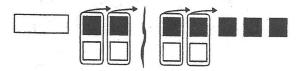
## **Quick Review**



Use algebra tiles to solve equations that involve integers. For example, to solve x-2=-5:



Add 2 white tiles to each side, then remove zero pairs.



The solution is x = -3.

➤ Solve by inspection for simple equations that involve whole numbers.

For example, to solve 2x + 1 = 9:

Think: Which number added to 1 gives 9?

Answer: 8 + 1 = 9

Now think: Which number multiplied by 2 gives 8?

Answer:  $4 \times 2 = 8$ 

So, the solution is x = 4.

➤ Use algebra to solve any equation.

For example, to solve  $\frac{n}{5} = 10$ :

 $\frac{n}{5} = 10$  Multiply each side of the equation by 5 to isolate n.

$$\frac{n}{5} \times 5 = 10 \times 5$$

$$n = 50$$

- ➤ Use systematic trial to solve an equation if you are not sure how to start.
- ➤ Use the *balance-scales model* to help you visualize the equation. Whichever method you choose, always *verify* your solution by substituting the solution into the original equation.

## Practice

For questions 1 to 4, use algebra, a balance-scales model, inspection, systematic trial, or tiles to solve each equation.

Verify your solutions.

**1.** a) 
$$\frac{x}{3} = 12$$

b)  $\frac{x}{2} = 8$ 

The solution is:

The solution is:

c) 3x = 12

d) 2x = 8

The solution is:

The solution is: \_\_\_\_\_

**2.** a) n-5=-3

b) n + 10 = 6

The solution is:

The solution is:

a governa de cultura

c) n + 8 = -2

**d)** n-6=-10

The solution is:

The solution is:

And**isqu**hamintang opegraf

**3.** a) 2x + 5 = 19

b) 7x + 4 = 18

The solution is:

The solution is:

c) 4x - 3 = 13

d) 3x - 10 = 14

The solution is:

The solution is:

4.	a)	ħ	+	4	-	1	Person
-88	aj	P		7	-	ı	ı

b) t-6=14

	solution is:	ned-transcriptoropies		The solution is:	
c) $\frac{k}{8} = 5$				d) $5x = 45$	
The	solution is:			The solution is:	
question	ns 5 to 9, write	then solve an e	equation to s	solve the problem.	
The tota	alt ticket costs \$ al cost of 2 adul any child tickets	lt tickets and n			
	ars ago, Ellie wa d is Ellie now?	•			
-	e has perimeter		- "% ; 4.		
What is	the length of a	side of the squ	ıare?		
Phillipe	shared his bead	ds with three fi			
Phillipe Each pe	shared his bead	ds with three fi	riends.		
Phillipe Each pe How m	shared his bead rson had 6 bead any beads did P	ds with three fi ds. Phillipe start w ards. She divid	riends. ith?	o 5 equal groups.	