

Keep That Positive Attitude!

Example

Solve the equation.

$$c + ^{-}4 = ^{-}17$$

Use an inverse operation to get the variable alone on one side of the equal sign.

$$\begin{array}{r} c + ^{-}4 = ^{-}17 \\ - ^{-}4 = - ^{-}4 \\ \hline c = ^{-}13 \end{array} \quad \text{or} \quad \begin{array}{r} c + ^{-}4 = ^{-}17 \\ + 4 = + 4 \\ \hline c = ^{-}13 \end{array}$$

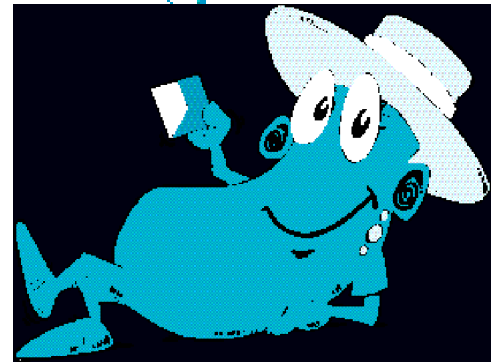
So, $c = ^{-}13$.

Remember! You can visualize addition of integers on the number line to help you solve equations.

Solve the equation.

- $2 + c = ^{-}15$
- $3 = ^{-}6 + c$
- $2 = c + 13$
- $^{-}9 + c = ^{-}11$
- $13 = c + ^{-}4$
- $5 = c + ^{-}6$
- $c + 1 = ^{-}8$
- $c + ^{-}7 = ^{-}15$
- $c + ^{-}6 = 8$
- $c + ^{-}9 = ^{-}7$

- Kareem owes his friend Karl \$3. Kareem then borrowed \$5 more. Which integer (c) shows how many dollars Kareem owes Karl?
- Jane borrowed \$5 from Jon. Then she borrowed \$9 from Sue. Which integer (c) represents how many dollars Jane has to her name?



Answer Box

A $c = ^{-}14$	B $c = 11$	C $c = ^{-}11$	D $c = 8$	E $c = ^{-}9$	F $c = 2$
G $c = ^{-}8$	H $c = 14$	I $c = 17$	J $c = 9$	K $c = ^{-}2$	L $c = ^{-}17$

