

## Solve Multi-Step Problems Using Equations

You can use single-step equations to model and solve a problem with more than one step.

Aliyah buys 4 packages of pens with 18 pens in each package. Kailyn buys 6 packages of pens with 14 pens in each package. How many more pens does Kailyn buy than Aliyah?

- A.** Write multiplication equations to find how many pens each girl buys. Let  $a$  = number of pens Aliyah buys.  
Let  $k$  = number of pens Kailyn buys.

Aliyah

$$4 \times 18 = a$$

$$72 = a$$

Kailyn

$$6 \times 14 = k$$

$$72 = a$$

- B.** Write an equation to find how many more pens Kailyn buys. Let  $p$  = how many more pens.

$$84 - 72 = p$$

$$12 = p$$

Kailyn buys 12 more pens than Aliyah.

**Find the answer. Show your work.**

- 1** Gabe sells 23 car wash tickets. Each ticket costs \$7. His dad gives him a \$15 donation. How much money does Gabe collect?  
Let  $c$  = amount collected.  
Let  $g$  = ticket sales.

Gabe collects \_\_\_\_\_.

- 2** Nicole has 48 stickers. She gives 5 stickers to each of her 6 friends. How many stickers does Nicole have left? Let  $s$  = stickers left.  
Let  $g$  = stickers given away.

Nicole has \_\_\_\_\_.