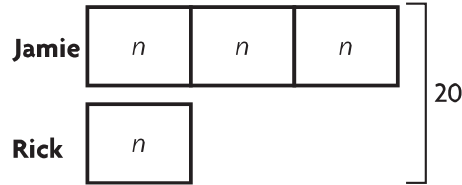


Name \_\_\_\_\_

## Algebra • Comparison Problems

Jamie has 3 times as many baseball cards as Rick. Together, they have 20 baseball cards. How many cards does Jamie have?

**Step 1** Draw a box with the letter  $n$  in it to show that Rick has an unknown number of cards. Jamie has 3 times as many cards as Rick, so draw three identical boxes to represent Jamie's cards.



**Step 2** Use the model to write an equation.

**Think:** There are 4 equal bars. The number in each bar is represented by  $n$ .

There are a total of 20 cards. So,  $\underline{4} \times n = \underline{20}$ .

**Step 3** Solve the equation to find the value of  $n$ .

**Think:** 4 times what number is 20?

Since  $4 \times \underline{5} = 20$ , the value of  $n$  is  $\underline{5}$ .

Rick has  $\underline{5}$  cards.

**Step 4** Find how many cards Jamie has.

**Think:** Jamie has 3 times as many cards as Rick.

So, Jamie has  $3 \times \underline{5} = \underline{15}$  baseball cards.

**Draw a model. Write an equation and solve.**

1. Maddie has 2 times as many stickers on her notebook as Meg. Together, they have 15 stickers. How many stickers are on Maddie's notebook?
2. How many more stickers are on Maddie's notebook than on Meg's notebook?