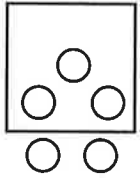


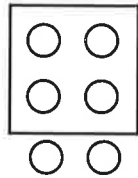
Explore Addition and Subtraction Expressions

A box contains some baseballs. There are 2 baseballs on the ground.
How many baseballs are there altogether?

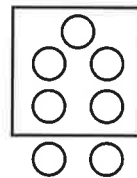
You can draw models to show the total number of baseballs if the box contains certain numbers of baseballs.



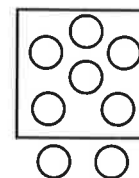
5 baseballs



6 baseballs



7 baseballs



8 baseballs

You can also write an algebraic expression to represent the total number of baseballs.

- The number of baseballs in the box changes, so represent it with the variable, b .
- The number of baseballs on the ground stays the same: 2.
- Add the number of baseballs in the box and the number on the ground to find the number of baseballs altogether.

So, $b + 2$ represents the total number of baseballs.

Suppose there are 9 baseballs in the box.

$$b = 9$$

You can find the total number of baseballs

$$b + 2$$

by evaluating the expression.

$$9 + 2 = 11 \text{ baseballs}$$

Complete the steps to write and evaluate an expression for the situation.

1. Laura had 5 more hits than Susan. How many hits did Laura have?

What number changes? _____

Write a variable to represent the number that changes. _____

What number stays the same? _____

Write the number that stays the same. _____

What operation do you need to use to find the number of hits Laura had? _____

Write an expression to represent the number of hits Laura had. _____

Suppose Susan had 2 hits. Evaluate the expression for $s = 2$. _____

2. The Mustangs scored m runs in the softball game. The Rangers scored 3 fewer runs than the Mustangs. How many runs did the Rangers get?

3. During the softball season, the Rangers won y games. They lost 4 more games than they won. How many games did the Rangers lose during the season?