Chapter 8 Math Link Introduction

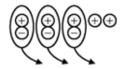
This worksheet will help you with the Math Link introduction on page 285.

Integer Chips

In your student resource, a red chip represents the value of +1 and a blue chip represents the value of -1. On worksheets, a chip with a + sign on it \oplus represents the value of +1. A chip with a - sign on it \bigcirc represents the value of -1.

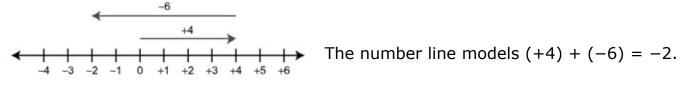
A zero model consists of one positive chip and one negative chip: (+1) + (-1) = 0

Example:

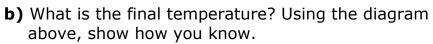


The model represents (+5) + (-3) = +2

Number Lines



- - a) How does the diagram model the situation?



- **2.** The diagram models a starting temperature of 4 °C and a decrease of 9 °C.
 - a) How does the diagram model the situation?
 - b) What is the final temperature? Using the diagram above, show how you know.
 - c) Draw a diagram using integer chips to model the same situation. Include an explanation for your diagram.
- **3.** Suppose a temperature change from 5 °C to -15 °C occurs over a 4-h period.
 - **a)** What is the total change of temperature over the 4 h?
 - b) What operation would you perform to determine the change per hour?
 - **c)** Find the temperature change per hour.

+5

+4

+2 -

+1

0

-1

-2 -

-3.

-5