Name:

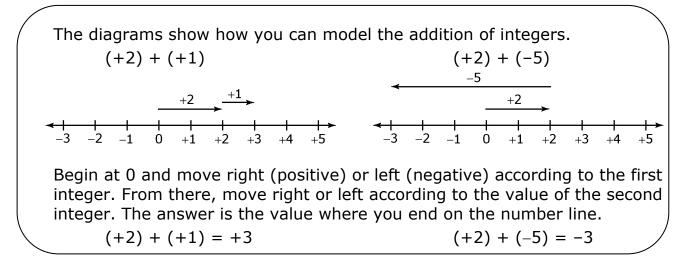
Date:

BLM 5

Adding Integers

Chapter 5

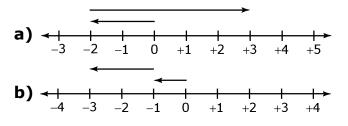
fega



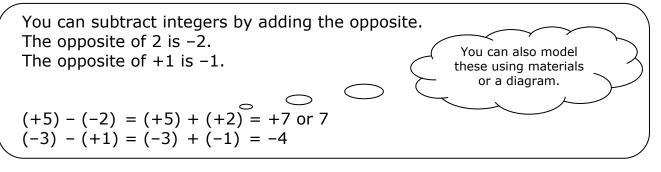
 Complete each addition statement. Use a number line to justify your answer.

 (+5) + (-2)
 (-3) + (+7)
 (+1) + (+4)
 (-3) + (-2)

 2. What addition statement does each number line model?



Subtracting Integers



- 3. What is the opposite of each integer?
 a) -5 b) +4 c) 13 d) -2
- **4.** Solve. **a)** (+3) - (-1) **b)** (-3) - (+2) **c)** 5 - (+2) **d)** 2 - (-8)





Using Expressions

The expression, 3w + 2 consists of:

- a numerical coefficient, 3
- a variable, w
- a constant, +2

An expression can be thought of as a shorthand way of writing a word statement. For example, consider the word statement, "The length of a particular rectangle is two units more than triple its width". You could represent the rectangle's length with the expression, 3w+2, where the variable *w* is its width.

5. For each expression, identify the numerical coefficient, the variable, and the constant.

a) 2x - 7 **b)** -3b + 5

- **c)** *t* 4 **d)** 3 6*r*
- **6.** Write an expression for each phrase. State what each variable represents.
 - a) Sarah is 5 years younger than her sister.
 - b) The width of the rectangle is3 cm less than twice its length.
 - c) The perimeter of a triangle is increased by 14 cm.
 - d) The school sold half of the concert tickets it expected to sell.

- Use the information on each diagram to answer the questions below.
 - a) What is the perimeter of the square?



b) What is a word statement describing the length of the rectangle in terms of its width?

