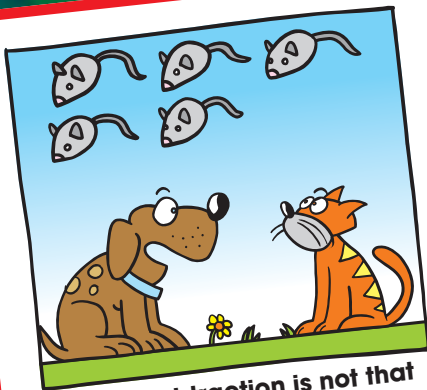
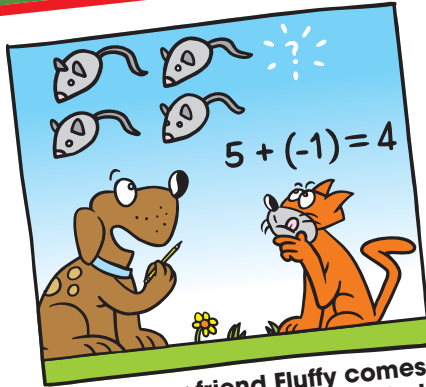


# 1 Operations with Integers

- 1.1 Integers and Absolute Value
- 1.2 Adding Integers
- 1.3 Subtracting Integers
- 1.4 Multiplying Integers
- 1.5 Dividing Integers
- 1.6 The Coordinate Plane



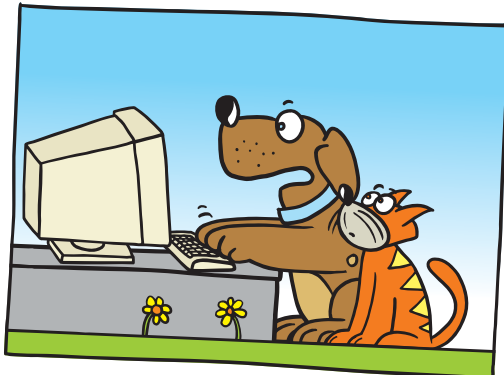
"Look, subtraction is not that difficult. Imagine that you have five squeaky mouse toys."



"After your friend Fluffy comes over for a visit, you notice that one of the squeaky toys is missing."



"Now, you go over to Fluffy's and retrieve the missing squeaky mouse toy. It's easy."



"Dear Sir: You asked me to 'find' the opposite of -1."

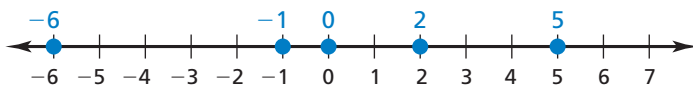


"I didn't know it was missing."

# What You Learned Before

## Ordering Integers

**Example 1** Order 0, -1, 2, 5, and -6 from least to greatest.



### Try It Yourself

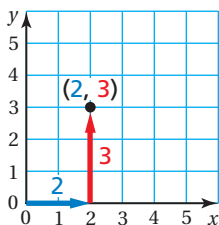
Order the integers from least to greatest.

1. -10, 15, 4, -2, -12

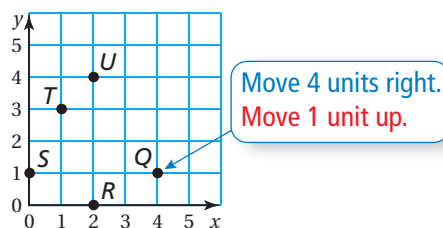
2. 7, -5, 3, -3, 1

## Plotting Points

**Example 2** Plot the point (2, 3).



**Example 3** Write an ordered pair corresponding to Point Q.



∴ The ordered pair (4, 1) corresponds to Point Q.

### Try It Yourself

Use the graph in Example 3 to write an ordered pair corresponding to the point.

3. Point S

4. Point T

5. Point U

6. Point R

## Using Order of Operations

**Example 4** Evaluate  $6^2 \div 4 - 2(9 - 5)$ .

**First:** Parentheses

$$6^2 \div 4 - 2(9 - 5) = 6^2 \div 4 - 2 \cdot 4$$

**Second:** Exponents

$$= 36 \div 4 - 2 \cdot 4$$

**Third:** Multiplication and Division (from left to right)

$$= 9 - 8$$

**Fourth:** Addition and Subtraction (from left to right)

$$= 1$$

### Try It Yourself

Evaluate the expression.

7.  $15\left(\frac{8}{4}\right) + 2^2 - 3 \cdot 7$

8.  $5^2 \cdot 2 \div 10 + 3 \cdot 2 - 1$

9.  $3^2 - 1 + 2(4(3 + 2))$



"I liked it because it is the opposite of the freezing point on the Fahrenheit temperature scale."