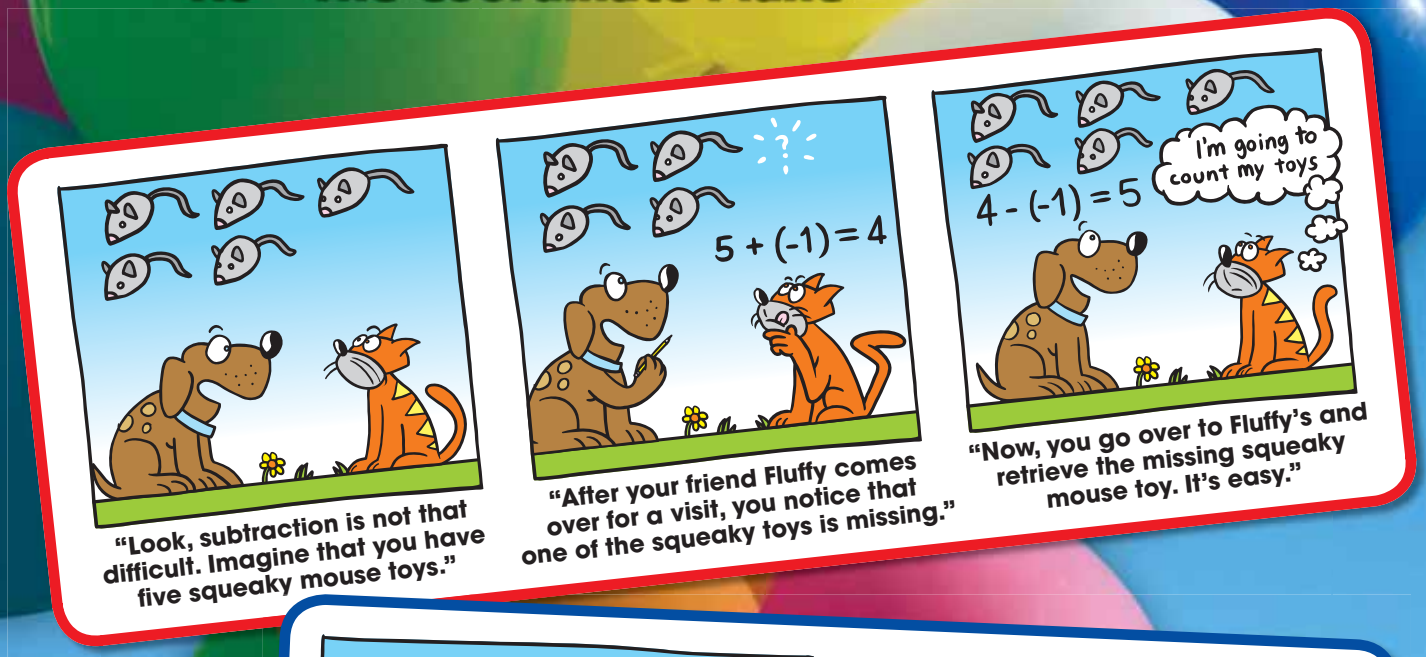
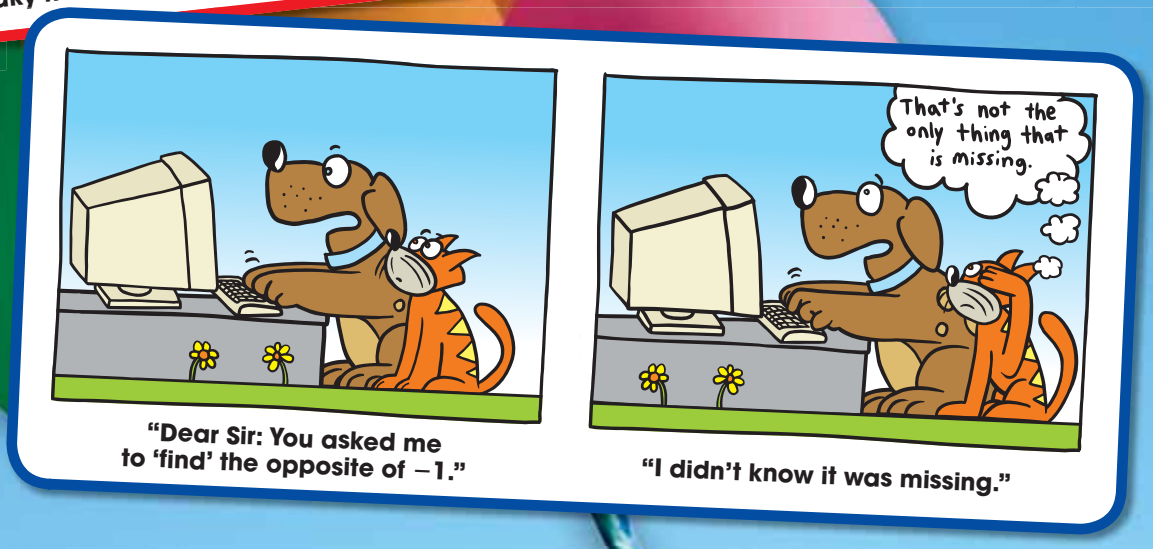
English Spanish

1 Operations with Integers



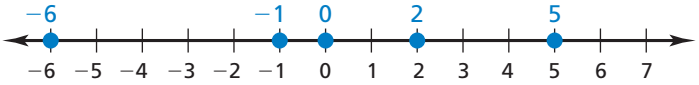


English Spanish

What You Learned Before

Ordering Integers

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



Try It Yourself

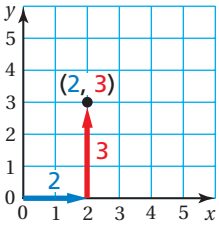
Order the integers from least to greatest.

1. −10, 15, 4, −2, −12

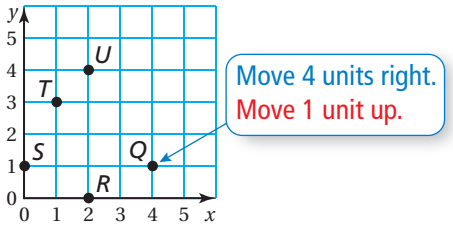
2. 7, −5, 3, −3, 1

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: **P**arentheses

Second: **E**xponents

Third: **M**ultiplication and **D**ivision (from left to right)

Fourth: **A**ddition and **S**ubtraction (from left to right)

$$6^2 \div 4 - 2(9 - 5) = 6^2 \div 4 - 2 \cdot 4$$
$$= 36 \div 4 - 2 \cdot 4$$
$$= 9 - 8$$
$$= 1$$

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