LESSON 10-1
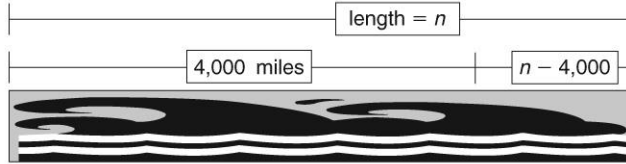
Modeling and Writing Expressions
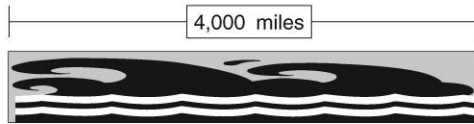
Write an expression that shows how much longer the Nile River is than the Amazon River.

NILE RIVER

length = n

4,000 miles $n - 4,000$

The expression is **$n - 4,000$**.

AMAZON RIVER

4,000 miles

Each state gets the same number of senators. Write an expression for the number of senators there are in the United States Congress.

There are 50 states.

There are s senators from each state.

50s

The total number of senators is **50 times s**.

Solve.

1. Why does the first problem above use subtraction?

   _____

2. Why does the second problem above use multiplication?

   _____

3. Jackson had n autographs in his autograph book. Yesterday he got 3 more autographs. Write an expression to show how many autographs are in his autograph book now.

   _____

4. Miranda earned $c for working 8 hours. Write an expression to show how much Miranda earned for each hour worked.

   _____

Answers

1. Sample answer: When finding the difference in two amounts, you subtract.

2. Since each state gets the same number of senators, you multiply the number of states by the number of senators.

3. $n + 3$

4. $c \div 8$