



# Multiply More Decimals

Let's multiply decimals.

## Warm-up

### Estimation Exploration: Central Park



Central Park is a large park in Manhattan. It is about 3.85 kilometers long and 0.79 kilometer wide. What is the approximate area of Central Park?

Record an estimate that is:

| too low | about right | too high |
|---------|-------------|----------|
|         |             |          |

## Activity 1

### Multiply More Decimals

1. Explain or show why each pair of expressions have the same value.

a.  $7.2 \times 5.3$  and  $(72 \times 53) \times 0.01$

b.  $6.5 \times 2.8$  and  $(65 \times 28) \div 100$

c.  $31 \times 0.44$  and  $(31 \times 44) \times \frac{1}{100}$

2. Find the value of the products in the previous problem.



## Activity 2

### Choose Your Strategy

Find the value of each product.

1.  $7.3 \times 4.2$

2.  $38 \times 0.55$

3.  $285 \times 0.17$



## Section C Summary

We learned different strategies for multiplying with decimals.

We used place value relationships to reason about the multiplication.

Example:  $6 \times 0.14 = 0.84$  because 6 groups of 14 hundredths is  $6 \times 14$  or 84 hundredths.

We used properties of operations to break up the multiplication.

Example:  $0.9 \times 0.3 = (9 \times 3) \times 0.01 = 27 \times 0.01 = 0.27$

We also used diagrams to represent the multiplication.

Example: This diagram shows 17 groups of 3 hundredths is 51 hundredths, so  $1.7 \times 0.3 = 0.51$ .

