Lesson 21: 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 km wide. What is the area of Central Park?

Record an estimate that is:

too low	about right	too high

21.1: Multiply More Decimals

1. Explain or show why each pair of expressions is equivalent.

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

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

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

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

21.2: Choose Your Strategy

Find the value of each product.

1. 7.3×4.2

2. 38×0.55

3. 285×0.17

Section Summary

Section Summary
In this section, we learned to use place value relationships to multiply a whole number and a decimal. For example,

$$6 \times 0.14 = 0.84$$

because 6 groups of 14 hundredths is 6×14 or 84 hundredths.

We also found products like 1.7×0.3. We can use a diagram to see that this is 17×3 hundredths or 0.51.