

Lesson 17: Multiply Decimals and Whole Numbers

- Let's multiply whole numbers by tenths and hundredths.

Warm-up: True or False: Place Value Products

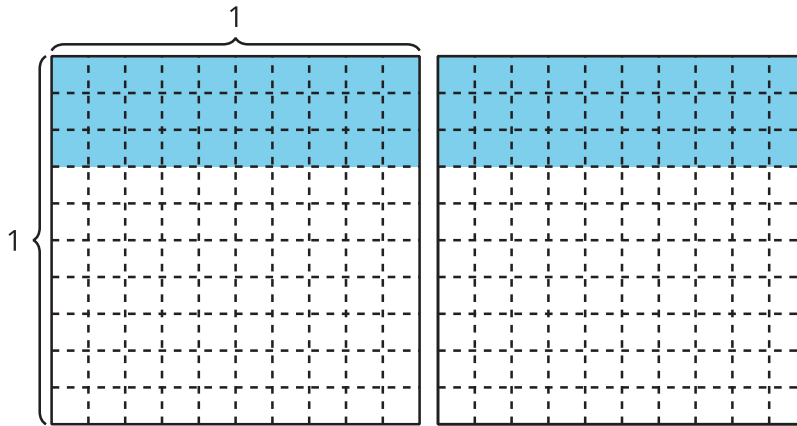
Decide if each statement is true or false. Be prepared to explain your reasoning.

- $100 \times 0.01 = 1$

- $10 \times 0.1 = 0.01$

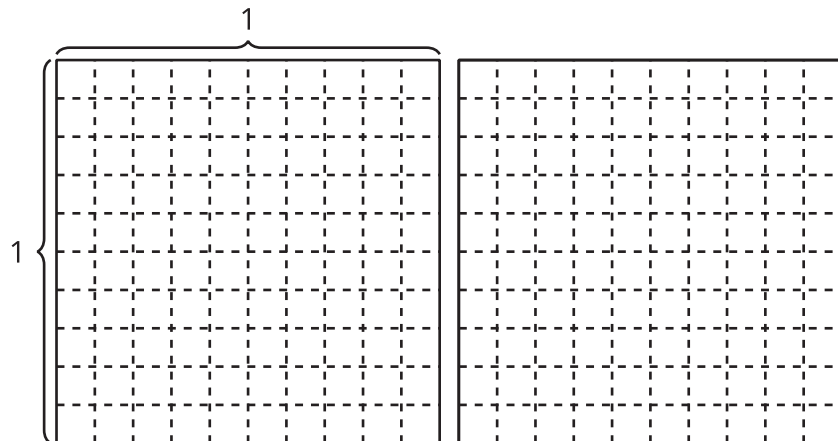
- $10 \times 0.01 = 0.1$

17.1: Multiply Decimals By Whole Numbers

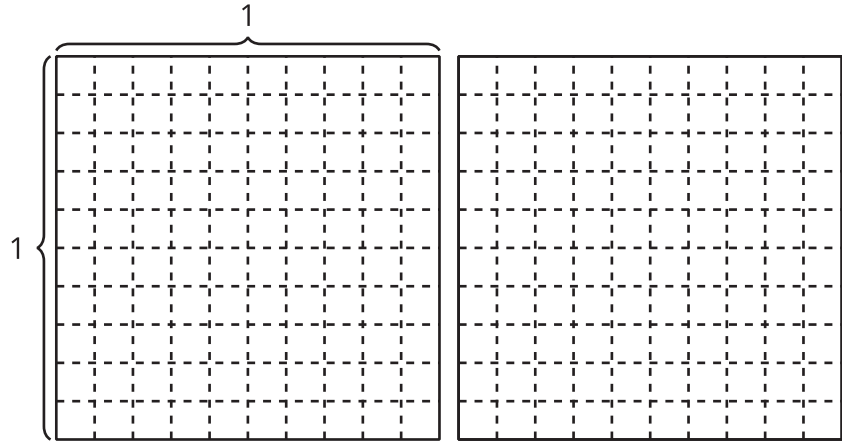


Find the value of each expression in a way that makes sense to you. Explain or show your reasoning. Use the grids, if needed.

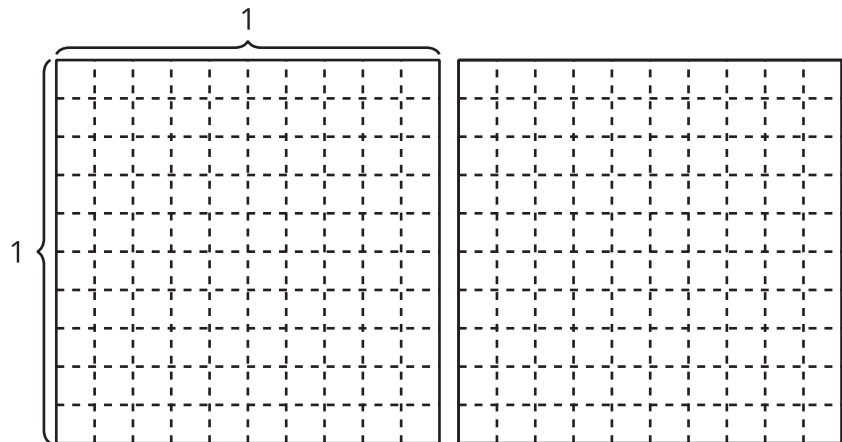
$$1.2 \times 0.7$$



$$2.2 \times 0.08$$



$$3.2 \times 0.78$$



17.2: Using Whole Number Products

1. Find the value of each expression. Explain or show your reasoning.

a. 3×0.5

b. 5×0.3

c. 7×0.02

2. Kiran wrote this explanation to describe the strategy he used to multiply a whole number by some tenths:

“I just turn the numbers into whole numbers, multiply them, and call them tenths.” (Pause for teacher directions.)

3. Can you use Kiran’s reasoning to find the value of 6×0.07 ? Explain your reasoning.
