Unit 5, Lesson 18

Use Whole Number Facts

Let's multiply whole numbers and decimals.

Warm-up

True or False: Group Dynamics

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

- $30 \times 2 \times 10 = 6 \times 10$

- $30 \times 2 \times 10 = 20 \times 3 \times 10$

- $60 \times 10 = 30 \times 20$

Activity 1

Agree or Disagree

1. Decide if each equation is true or false. Explain or show your reasoning.

   a. $4 \times 0.7 = 28$

   b. $5 \times 0.8 = 0.40$

   c. $6 \times 0.03 = (6 \times 3) \times 0.01$

   d. $8 \times 0.07 = (8 \times 7) \times 0.1$

2. Fill in the blank to make each equation true.

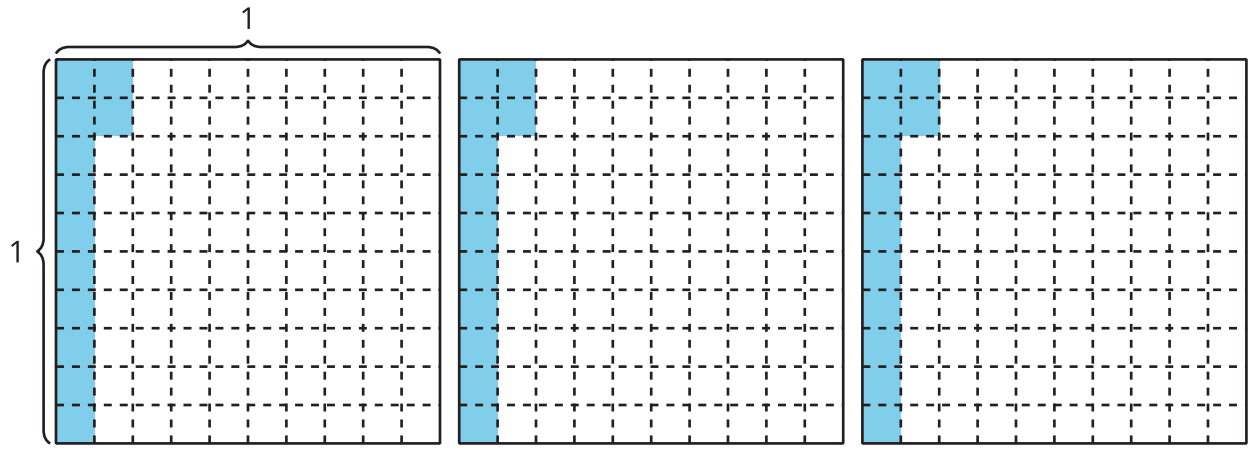
   a. $3 \times 0.7 = 3 \times 7 \times$ _____

   b. $3 \times 0.07 = 3 \times 7 \times$ _____

   c. $5 \times$ _____ $= (5 \times 4) \times 0.1$

Activity 2

Interpret Diagrams and Expressions



1. Explain or show how the diagram represents each expression.

   a. 3×0.12

   b. $(3 \times 12) \times 0.01$

   c. $(3 \times 0.1) + (3 \times 0.02)$

2. Find the value of $(3 \times 12) \times 0.01$. Explain or show your reasoning.

3. Find the value of $(3 \times 0.1) + (3 \times 0.02)$. Explain or show your reasoning.