

## 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.

- $30 \times 2 \times 10 = 6 \times 10$
  
  
  
  
  
  
  
  
  
  
- $30 \times 2 \times 10 = 20 \times 3 \times 10$
  
  
  
  
  
  
  
  
  
  
- $60 \times 10 = 30 \times 20$

## 18.1: Agree or Disagree

1. Decide whether each equation is true or false and explain or show why.

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

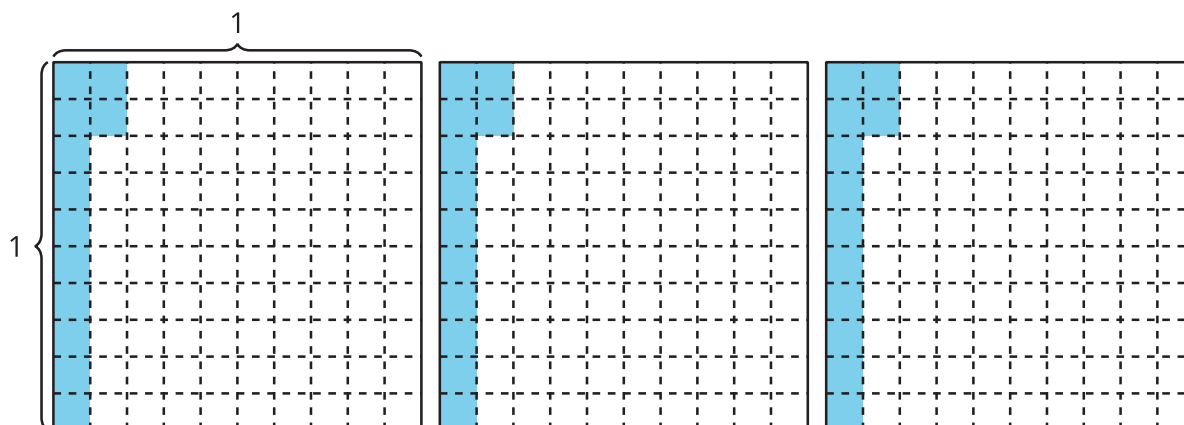
2. Fill in the blank to make each equation true.

a.  $3 \times 0.7 = 3 \times 7 \times \underline{\hspace{2cm}}$

b.  $3 \times 0.07 = 3 \times 7 \times \underline{\hspace{2cm}}$

c.  $5 \times \underline{\hspace{2cm}} = (5 \times 4) \times 0.1$

## 18.2: Interpret Diagrams and Expressions



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

a.  $3 \times 0.12$

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.