

## Unit 3 Lesson 4: What Fraction of a Group?

### 1 Estimating a Fraction of a Number (Warm up)

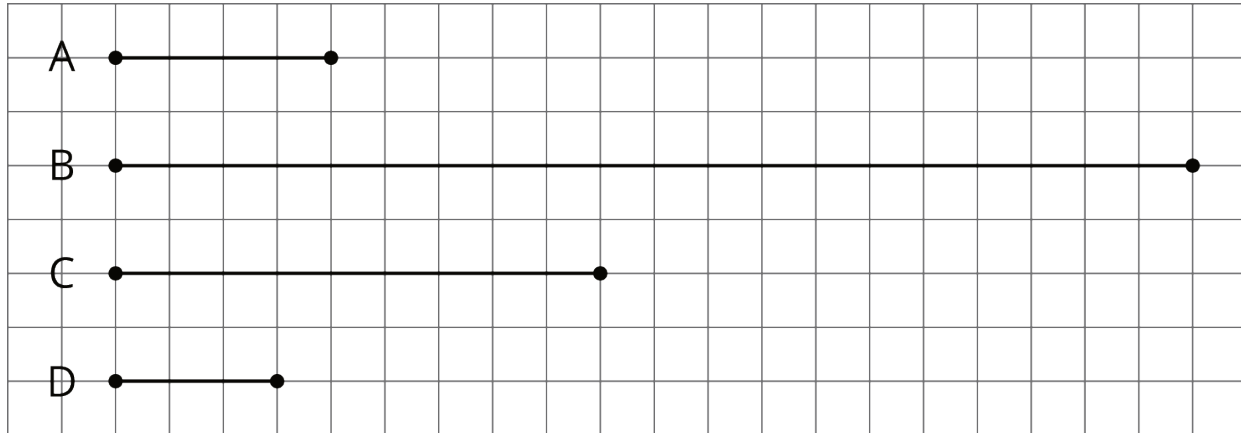
#### Student Task Statement

1. Estimate the quantities:
  - a. What is  $\frac{1}{3}$  of 7?
  - b. What is  $\frac{4}{5}$  of  $9\frac{2}{3}$ ?
  - c. What is  $2\frac{4}{7}$  of  $10\frac{1}{9}$ ?
2. Write a multiplication expression for each of the previous questions.

## 2 Fractions of Ropes

### Student Task Statement

Here is a diagram that shows four ropes of different lengths.



1. Complete each sentence comparing the lengths of the ropes. Then, use the measurements shown on the grid to write a multiplication equation and a division equation for each comparison.
  - a. Rope B is \_\_\_\_\_ times as long as Rope A.
  - b. Rope C is \_\_\_\_\_ times as long as Rope A.
  - c. Rope D is \_\_\_\_\_ times as long as Rope A.

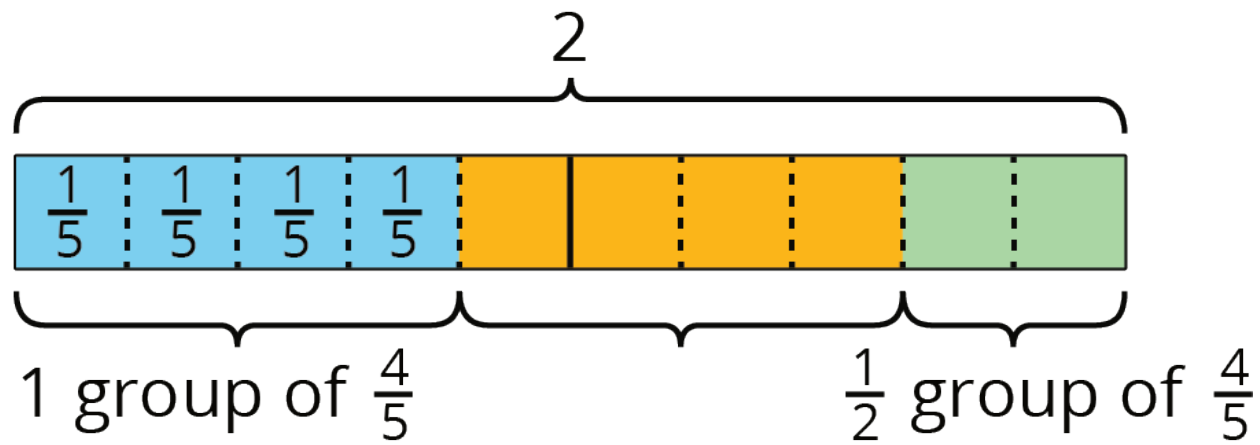
2. Each equation can be used to answer a question about Ropes C and D. What could each question be?

a.  $? \cdot 3 = 9$  and  $9 \div 3 = ?$

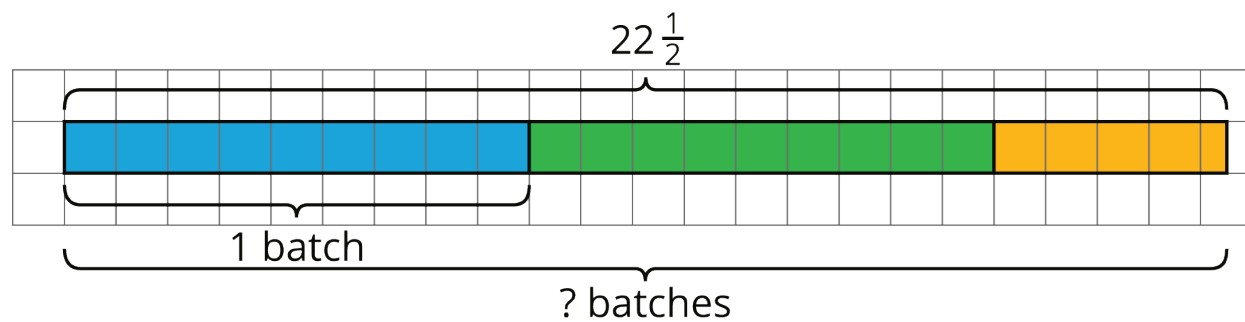
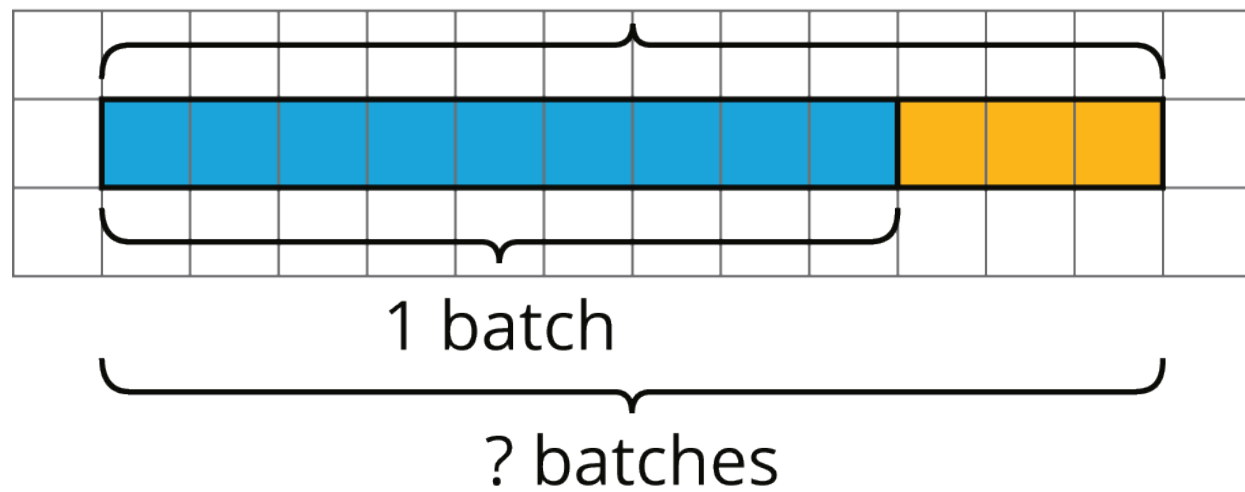
b.  $? \cdot 9 = 3$  and  $3 \div 9 = ?$

### 3 Fractional Batches of Ice Cream

Images for Launch



12 cups







Activity Synthesis

