Unit 2, Lesson 6

Relate Division and Multiplication

Let's explore the relationship between multiplication and division.

Warm-up

Number Talk: Multiply and Divide

Find the value of each expression mentally.

- $3 \times \frac{1}{2}$
- $3 \times \frac{2}{2}$
- $3 \times \frac{3}{2}$
- $5 \times \frac{3}{2}$

Activity 1

The Race



1. Lin and Han run a 3-mile relay race as a team. They each run the same distance. Draw a diagram to represent the situation.

2. Take turns describing to your partner how your diagrams represent the situation.
3. How far does each person run?

Activity 2

Where Do You See It?

Diagram A

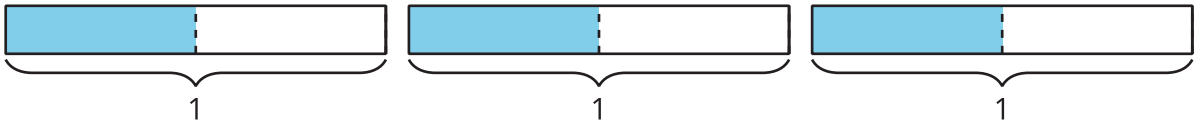
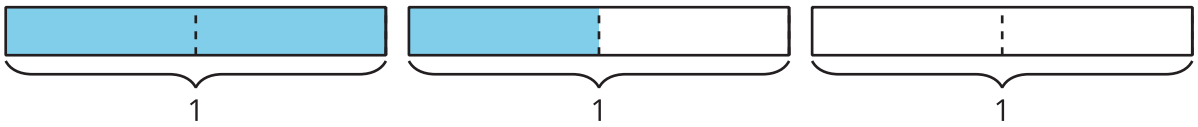


Diagram B



Choose 1 diagram that you think best represents each expression. Describe how your chosen diagram represents that expression. Explain your reasoning.

1. $3 \times \frac{1}{2}$

2. $3 \div 2$

3. $\frac{1}{2} \times 3$