



# 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.

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

$$\bullet \ 3 \times \frac{2}{2}$$

$$\bullet \ 3 \times \frac{3}{2}$$

$$\bullet \ 5 \times \frac{3}{2}$$

## Activity 1

### The Race

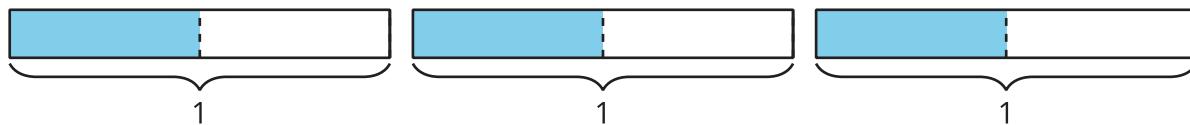


1. Lin and Han run a 3-mile relay race as a team. They each run the same distance. Draw a diagram to represent the situation.
2. Take turns describing to your partner how your diagrams represent the situation.
3. How far does each person run?

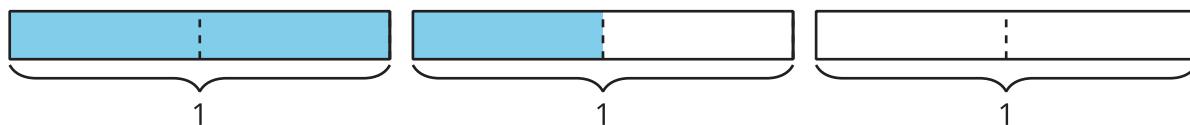
## Activity 2

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

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2.  $3 \div 2$

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

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