

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.

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

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

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

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

6.1: The Race



1. Lin and Han ran a 3 mile relay race as a team. They each ran 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 did each person run?

6.2: Where Do You See It?

Diagram A

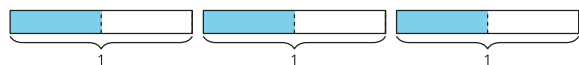
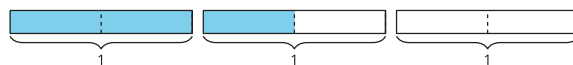


Diagram B



For each expression, choose one of the diagrams and describe how the diagram represents the expression. Be prepared to explain why you chose that diagram.

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

2. $3 \div 2$

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