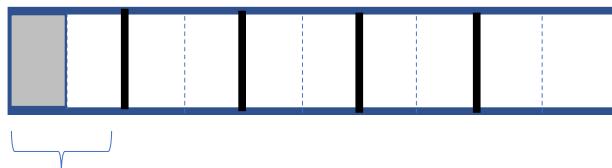


## Topic C Quiz Prep (Lessons 12 - 17)

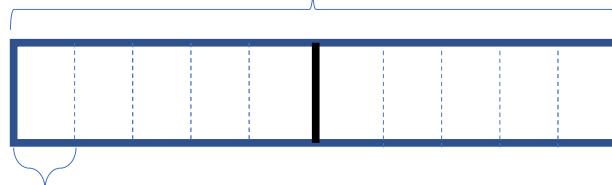
Item 1: Consider how tape diagrams appear for different expressions

$$\frac{1}{5} \div 2 = \frac{1}{10}$$



$\frac{1}{5}$  Notice how the tape diagram shows fifths and how  $1/5$  is being split or divided in  $\frac{1}{2}$ . The shaded part shows  $1/10$ .

$$2 \div \frac{1}{5} = 10$$



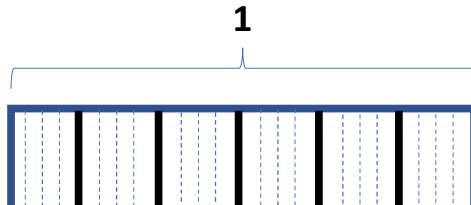
$\frac{1}{5}$  Notice how the entire tape diagram is 2 and how it is split up into fifths. There would be 10 fifths needed to cover the entire tape diagram.

Item 2: Use models to help you divide

$$\frac{1}{6} \div 4$$

↓ ↓ ↓

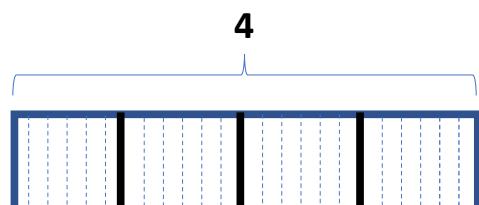
$$\frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$$



$$4 \div \frac{1}{6}$$

↓ ↓ ↓

$$4 \times \frac{6}{1} = 24$$



## Topic C Quiz Prep (Lessons 12 - 17)

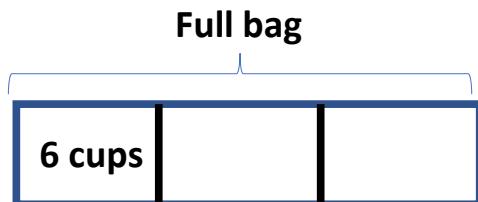
Item 3: Word problem with division of fractions.

Rudra uses **5 cups** of milk to make pudding. Each batch of pudding uses  $\frac{1}{4}$  cup of milk. How many batches of pudding can Rudra make?

$$\begin{array}{r} 5 \quad \div \quad \frac{1}{4} \\ \downarrow \quad \downarrow \quad \downarrow \\ 5 \quad \times \quad \frac{4}{1} \end{array} = \text{ 20 batches of pudding}$$

Item 4: Word Problem with division of fractions.

Paige uses **6 cups** of peanuts to make a tail mix snack. The amount of peanuts she uses is  $\frac{1}{3}$  of a full bag. How many cups of peanuts are in a full bag?



$$\frac{1}{3} \text{ of } \boxed{\text{FULL BAG}} = \text{ 6 cups}$$

$$6 \text{ cups} \times 3 = 18 \text{ cups in a full bag}$$

or

$$6 \quad \div \quad \frac{1}{3}$$

## Topic C Quiz Prep (Lessons 12 - 17)

### Item 5: Match an expression with its description

*The number of  $1/5$  cup servings in 9 cups of water.*

$$9 \div \frac{1}{5}$$

*The length of a piece of ribbon that is  $1/5$  of a 9-foot-long ribbon.*

$$\frac{1}{5} \times 9$$

*The weight of each chunk when  $1/5$  pound of cheese is cut into 9 equal-size chunks.*

$$\frac{1}{5} \div 9$$

### Item 6: Greater Than, Less Than, or Equal To?

$$9 \div \frac{1}{5} \quad > \quad \frac{1}{5} \div 9$$

$$\frac{1}{3} \div 5 \quad < \quad \frac{1}{3} \times 5$$

$$3 \div 5 \quad = \quad 3 \times \frac{1}{5}$$

$$9 \div \frac{1}{5} \quad > \quad 9 \div \frac{1}{2}$$

$$\frac{1}{3} \div 5 \quad < \quad \frac{1}{3} \div 2$$