

NAME _____

DATE _____

PERIOD _____

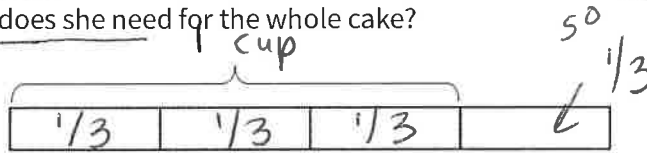
Unit 4, Lesson 8

Key

14 Practice Problems

1. For each scenario, use the given tape diagram to help you answer the question. Mark up and label the diagrams as needed.

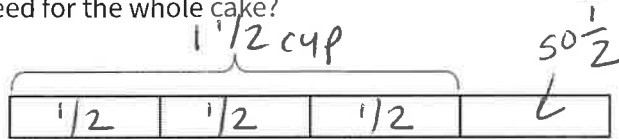
a. Mai has picked 1 cup of strawberries for a cake, which is enough for $\frac{3}{4}$ of the cake. How many cups does she need for the whole cake?



| C | Fraction |
|---------------|---------------|
| $\frac{1}{3}$ | $\frac{3}{4}$ |
| $\frac{1}{3}$ | $\frac{1}{4}$ |
| $\frac{1}{3}$ | 1 |

$\frac{1}{3} \div \frac{3}{4} = \frac{4}{3}$ cup
 $1 \div \frac{3}{4} = \frac{4}{3}$ cups

b. Priya has picked $1\frac{1}{2}$ cups of raspberries, which is enough for $\frac{3}{4}$ of a cake. How many cups does she need for the whole cake?

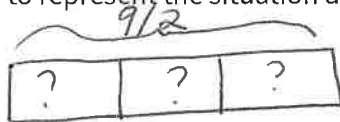


| C | Fraction |
|----------------|---------------|
| $1\frac{1}{2}$ | $\frac{3}{4}$ |
| $\frac{1}{2}$ | $\frac{1}{4}$ |
| 2 | 1 |

$1\frac{1}{2} \div \frac{3}{4} = 2$
 $2 \div \frac{3}{4} = 2\frac{2}{3}$ cups

$1\frac{1}{2} \div \frac{3}{4}$
 $\frac{3}{2} \div \frac{3}{4} = 2$ cups

2. Tyler painted $\frac{9}{2}$ square yards of wall area with 3 gallons of paint. How many gallons of paint does it take to paint each square yard of wall?



$? = \frac{3}{2}$ gallon

a. Write multiplication and division equations to represent the situation.

$\frac{9}{2} \div \frac{3}{1} = ?$ $? \times 3 = \frac{9}{2}$

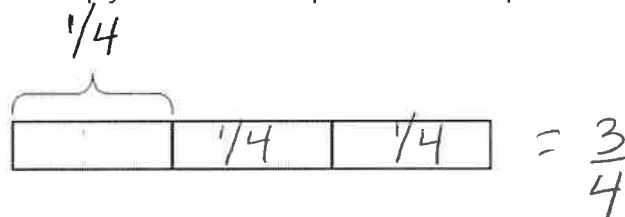
b. Draw a diagram to represent the situation and to answer the question.

3. After walking $\frac{1}{4}$ mile from home, Han is $\frac{1}{3}$ of his way to school. What is the distance between his home and school?

a. Write multiplication and division equations to represent this situation.

$\frac{1}{3} \times ? = \frac{1}{4}$ $\frac{1}{4} \div \frac{1}{3} = ?$

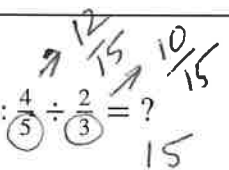
b. Use the given diagram to help you answer the question. Mark up and label it as needed.



$\frac{1}{3} \times \frac{3}{4} = \frac{1}{4}$ or
 $\frac{1}{4} \div \frac{1}{3} = \frac{3}{4}$

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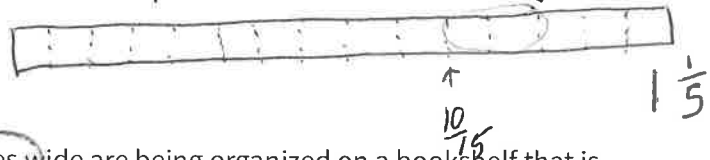
4. Here is a division equation: $\frac{4}{5} \div \frac{2}{3} = ?$



a. Write a multiplication equation that corresponds to the division equation.

$\frac{2}{3} \times ? = \frac{4}{5}$

b. Draw a diagram to represent and answer the question.



2

5. A set of books that are each 1.5 inches wide are being organized on a bookshelf that is 36 inches wide. How many books can fit on the shelf?

a. Write a multiplication equation and a division equation to represent this question.

$36 \div 1.5 = ?$
 $1.5 \times ? = 36$

b. Find the answer. Draw a diagram, if needed.

$36 \div 1.5 = 24 \text{ books}$

c. Use the multiplication equation to check your answer.

$1.5 \times 24 = 36$ ✓

3

6. a. Without calculating, order the expressions based on their values, from smallest to largest.

$56 \div 8$ $56 \div 8,000,000$ $56 \div 0.000008$

largest. medium smallest largest

b. Explain how you decided the order of the three expressions.

Dividend was the same so the largest divisor would make the smallest quotient

c. Find a number n so that $56 \div n$ is greater than 1 but less than 7.

$56 \div \text{anything greater than } 8.$

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