M4. L5 - Word Problems

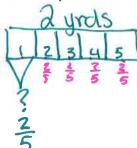
Fraction of a Set

Write Fractions as Mixed Numbers

$$\frac{31}{10} - \frac{31}{10} = \frac{23}{10} - \frac{3}{10} = \frac{47}{10} - \frac{117}{10} = \frac{89}{10} = \frac{89}{10}$$

Name

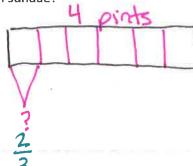
1. A total of 2 yards of fabric is used to make 5 identical pillows. How much fabric is used for each pillow?



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

Each pillow uses = Pards of fabric.

2. An ice cream shop uses 4 pints of ice cream to make 6 sundaes. How many pints of ice cream are used for each sundae?



$$4 \div 6 = \frac{4}{6} \div \frac{2}{2} = \frac{2}{3}$$

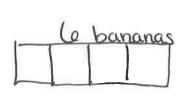
$$6 \times \frac{2}{3}$$

$$= \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3}$$

$$= \frac{12}{3} = 4$$

pints of ice cream. Each sundae uses

3. An ice cream shop uses 6 bananas to make 4 identical sundaes. How many bananas are used in each sundae? Use a tape diagram to show your work.



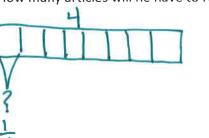
20	12 = = = 1
	$1\frac{1}{2} \times 4$
	1 + 2 + 2 + 2
	4 + 4
	4+2

Each sundae uses

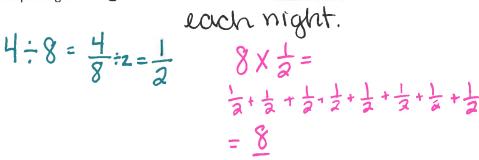
Lesson 5:

Solve word problems involving the division of whole numbers with answers in the form of fractions or whole numbers.

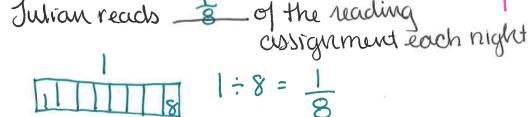
- 4. Julian has to read 4 articles for school. He has 8 nights to read them. He decides to read the same number of articles each night. Julian reads _ article
 - a. How many articles will he have to read per night?



$$4 \div 8 = \frac{4}{8} \div 2 = \frac{1}{2}$$

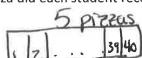


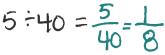
b. What fraction of the reading assignment will he read each night?



$$1\div 8 = \frac{1}{8}$$

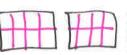
40 students shared 5 pizzas equally. How much pizza will each student receive? What fraction of the pizza did each student receive?





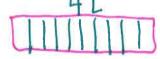




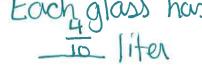


Each student receives _____ of the pizza.

- Lillian had 2 two-liter bottles of soda, which she distributed equally between 10 glasses.
 - How much soda was in each glass? Express your answer as a fraction of a liter.



$$4 \div 10 = \frac{4}{10}$$



b. Express your answer as a decimal number of liters.

c. Express your answer as a whole number of milliliters.

- 7. The Calef family likes to paddle along the Susquehanna River.
 - a. They paddled the same distance each day over the course of 3 days, traveling a total of 14 miles. How many miles did they travel each day? Show your thinking in a tape diagram.

b. If the Calefs went half their daily distance each day but extended their trip to twice as many days, how far would they travel?

$$6 \times 2\frac{1}{3}$$

 $2\frac{1}{3} + 2\frac{1}{3} + 2\frac{1}{3} + 2\frac{1}{3} + 2\frac{1}{3} + 2\frac{1}{3}$
 $= 12 + \frac{1}{3}$
 $= 12 + 2$