

KEY

NAME _____

DATE _____

PERIOD _____

Unit 4, Lesson 7: What Fraction of a Group?

1. A recipe calls for $\frac{1}{2}$ lb of flour for 1 batch. How many batches can be made with each of the following amounts?

a. 1 lb

~~1/2~~ 2 batches

b. $\frac{3}{4}$ lb

$\frac{3}{4} \times \frac{2}{1} = \frac{6}{4} = 1\frac{1}{2}$ batches

c. $\frac{1}{4}$ lb

$\frac{1}{4} \times \frac{2}{1} = \frac{1}{2}$ batch

| F | Batch |
|---------------|----------------|
| $\frac{1}{2}$ | 1 |
| 1 | 2 |
| $\frac{3}{4}$ | $1\frac{1}{2}$ |
| $\frac{1}{4}$ | $\frac{1}{2}$ |

1/3

2. Whiskers the cat weighs $2\frac{2}{3}$ kg. Piglio weighs 4 kg. For each question, write a multiplication and a division equation, decide whether the answer is greater or less than 1, and then answer the question.

a. How many times as heavy as Piglio is Whiskers?

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

or

$2\frac{2}{3} \div 4 = ?$ $2\frac{2}{3} \div ? = 4$
 $\frac{8}{3} \div 4 = \frac{2}{3}$ as heavy

b. How many times as heavy as Whiskers is Piglio?

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

or $4 \div 2\frac{2}{3} = ?$ $4 \div ? = 2\frac{2}{3}$
 $\frac{12}{3} \div \frac{8}{3} = 1\frac{1}{2}$

3. Andre is walking from home to a festival that is $1\frac{5}{8}$ kilometers away. He takes a quick rest after walking $\frac{1}{3}$ kilometers. In this situation, which question can be represented by the equation:

$? \cdot 1\frac{5}{8} = \frac{1}{3}$?

N A. What fraction of the trip has Andre completed?

B. How many more kilometers does he have to walk to get to the festival? subtraction

C. What fraction of the trip is left? no - problem is about done

D. How many kilometers is it from home to the festival and

back home? no-addition

1/4

5

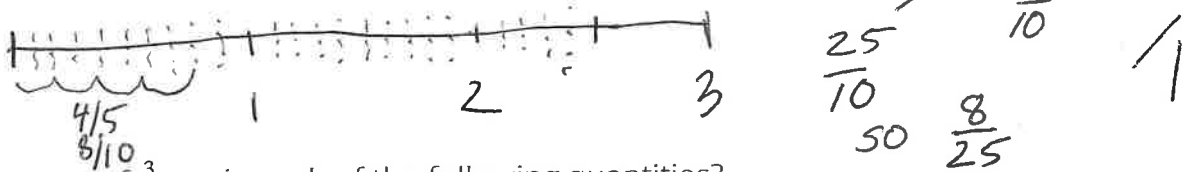
NAME

DATE

PERIOD

4. Draw a tape diagram to represent and answer the question: What fraction of $2\frac{1}{2}$ is $\frac{4}{5}$?

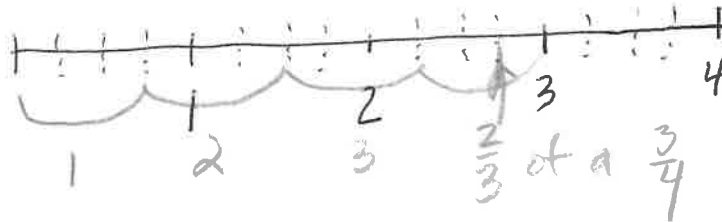
Think tenths would be helpful



5. How many groups of $\frac{3}{4}$ are in each of the following quantities?

a. $\frac{11}{4} \div \frac{3}{4}$

I can get $3\frac{2}{3}$ $\frac{11}{4}$

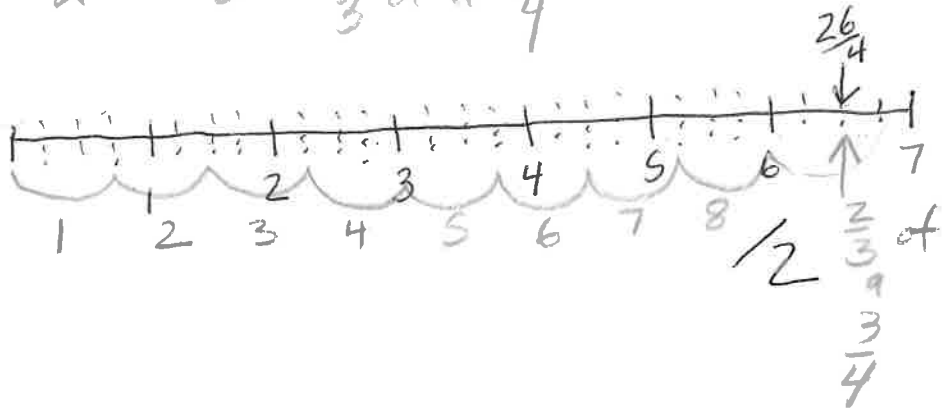


b. $6\frac{1}{2} \div \frac{3}{4}$

$\frac{13}{2} \div \frac{3}{4}$

$\frac{26}{4} \div \frac{3}{4}$

$8\frac{2}{3}$



(from Unit 4, Lesson 6)

6. Which question can be represented by the equation $4 \div \frac{2}{7} = ?$

A. What is 4 groups of $\frac{2}{7}$?

Y or **N** that would be $4 \times \frac{2}{7}$

B. How many $\frac{2}{7}$ s are in 4?

Y or N

C. What is $\frac{2}{7}$ of 4?

Y or **N** that would be $\frac{2}{7} \times 4$

D. How many 4s are in $\frac{2}{7}$?

Y or **N** that would be $\frac{2}{7} \div 4$

/4

(from Unit 4, Lesson 4)

16