

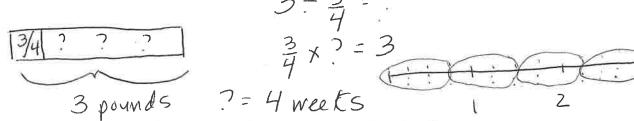


PERIOD

Unit 4, Lesson 4: How Many Groups? (Part 1)

- 1. A shopper buys cat food in bags of 3 lbs. Her cat eats $\frac{3}{4}$ lb each week. How many weeks does one bag last?
 - a. Draw a diagram to represent the situation and label your diagram so it can be followed by others.

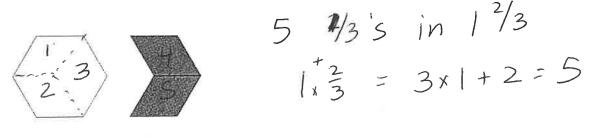
 Answer the question.



b. Write a multiplication or division equation to represent the situation.

c. Multiply your answer in the first question (the number of weeks) by $\frac{3}{4}$. Did you get 3 as a result? If not, revise your previous work. $\frac{3}{4} \times \frac{4}{1} = \frac{12}{4} = 3$ weeks

2. Use the diagram to answer the question: How many $\frac{1}{3}$ s are in $1\frac{2}{3}$? The hexagon represents 1 whole. Explain or show your reasoning.



3. Which question can be represented by the equation ? • $\frac{1}{8} = 3$? See Next page NAME

$$? \times \frac{1}{8} = 3 = 3 = \frac{1}{8} = ? \text{ DATE}$$
 or $3 = ? = \frac{1}{8}$

- A. How many 3s are in $\frac{1}{8}$?
- B. What is 3 groups of $\frac{1}{9}$?
- C. How many $\frac{1}{8}$ s are in 3?
- D. What is $\frac{1}{9}$ of 3?

4. Write two division equations for each multiplication equation.

1 one division equation | second division equation one division equation a. $15 \cdot \frac{2}{5} = 6$ $6 \div \frac{2}{5} = 15$ 6-15=== 8-6=43 b. $6 \cdot \frac{4}{3} = 8$ $8 \div \frac{4}{3} = 6$ 14-16= 7

5. Noah and his friends are going to an amusement park. The total cost of admission for 8 students is \$100, and all students share the cost equally. Noah brought \$13 for his ticket. Did he bring enough money to get into the park? Explain your reasoning.

$$\frac{$100}{8} = $12\frac{4}{8} \text{ or } $12.50, \text{ yes } $13\text{ is}$$
enough

(from Unit 4, Lesson 2)

- 6. Write a division expression with a quotient that is: Think, what can I change?

a. greater than
$$8 \div 0.001$$

make smaller or make bigger

b. less than $8 \div 0.001$

- c. between $8 \div 0.001$ and $8 \div \frac{1}{10}$