

Name _____

Period _____

Unit 4 Dividing Fractions Week of 1/27/20

Learning Targets from 6th Grade Common Core State Standards:

Lesson 5 How many groups?(Part 2)

- I can find how many groups there are when the number of groups and the amount in each group are not whole numbers.

Lesson 6 Using diagrams to find number of groups

- I can use a tape diagram to represent equal-sized groups and find the number of groups.

Lesson 7 What fraction of group?

- I can use diagrams and multiplication and division equations to represent and answer "what fraction of a group?" questions.
- I can tell when a question is asking for the number of groups and that number is less than 1.

Lesson 8 How much in each group? (Part 1)

- I can tell when a question is asking for the amount in one group.
- I can use diagrams and multiplication and division equations to represent and answer "how much in each group?" questions.

This Week's Vocabulary Words:

multiplication division quotient divisor group tape diagram

Homework is due the following day.

Day	Class work—All in Spiral using iPad	Homework	Complete	Correct
Monday	Lesson 5 How many groups?(Part 2 skip 5.2) PDF page 15	Pages 5 & 6: Lesson 4 Practice Problems—All	/4	/18
Tuesday	Lesson 6 Using diagrams to find number of groups PDF page 19	Pages 7 & 8: Lesson 5 Practice Problems—All	/4	/19
Wednesday	Lesson 7 What fraction of group? PDF page 23	Pages 3 & 4: Lesson 7 Practice Problems—All	/4	/16
Thursday	Lesson 8 How much in each group? (Part 1 Skip 8.1) PDF page 29	None		
Friday	No School Progress Reports	None		
		Total	/12	
		Quality	/4	
		Total	/16	

Homework Quality—Remember, if you don't know how to complete a problem you should read it again and write down the information you have, draw a picture, or write a question you have, please do not leave blank or write "?" or idk. You can also come in and get help before school☺!

- Work is **thorough** with **detailed** explanations (2 pts)
- Homework is corrected (with additions needed) in a different color pen/pencil (2 pts)

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

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$$? \times \frac{1}{8} = 3$$

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

1

4. Write two division equations for each multiplication equation.

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

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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.

1

(from Unit 4, Lesson 2)

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

- a. greater than $8 \div 0.001$
- b. less than $8 \div 0.001$
- c. between $8 \div 0.001$ and $8 \div \frac{1}{10}$

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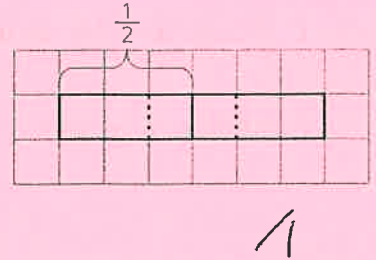
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Unit 4, Lesson 5: How Many Groups? (Part 2)

1. Use the tape diagram to represent and find the value of $\frac{1}{2} \div \frac{1}{3}$.

Mark up and label the diagram as needed.



2. What is the value of $\frac{1}{2} \div \frac{1}{3}$? Use pattern blocks to represent and find this value. The yellow hexagon represents 1 whole. Explain or show your reasoning.



1

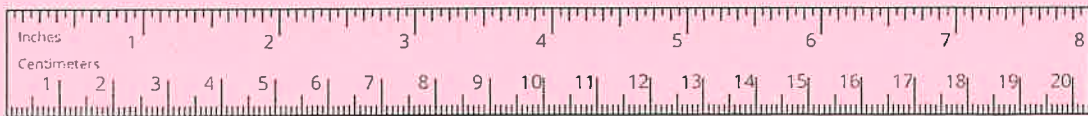
3. Use a standard inch ruler to answer each question. Then, write a multiplication equation and a division equation that answer the question.

a. How many $\frac{1}{2}$ s are in 7?

b. How many $\frac{3}{8}$ s are in 6?

c. How many $\frac{5}{16}$ s are in $1\frac{7}{8}$?

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4. Use the tape diagram to represent and answer the question: How many $\frac{2}{5}$ s are in $1\frac{1}{2}$?

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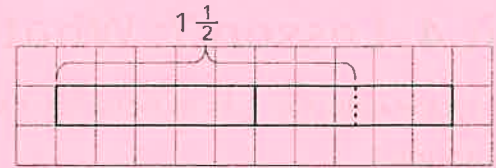
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How many $\frac{2}{5}$'s in $1\frac{1}{2}$?

Mark up and label the diagram as needed.



1

5. Write a multiplication equation and a division equation to represent each question, statement, or diagram.

a. There are 12 fourths in 3.

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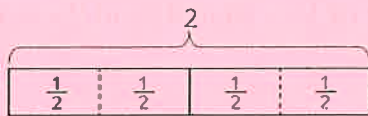
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c. How many $\frac{2}{3}$'s are in 6?

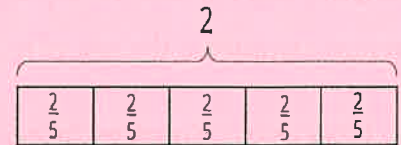
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b.



d.



(from Unit 4, Lesson 4)

M:

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M:

D:

1/8

6. At a farmer's market, two vendors sell fresh milk. One vendor sells 2 liters for \$3.80, and another vendor sells 1.5 liters for \$2.70. Which is the better deal? Explain your reasoning.

1

(from Unit 3, Lesson 5)

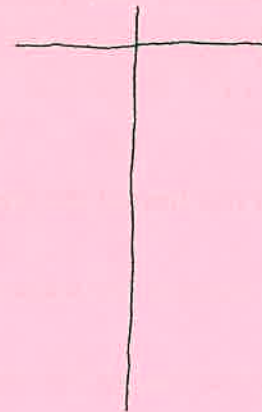
7. A recipe uses 5 cups of flour for every 2 cups of sugar.

a. How much sugar is used for 1 cup of flour?

b. How much flour is used for 1 cup of sugar?

c. How much flour is used with 7 cups of sugar?

d. How much sugar is used with 6 cups of flour?



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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

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

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

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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?

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

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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:

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

A. What fraction of the trip has Andre completed?

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

C. What fraction of the trip is left?

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

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

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

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

b. $6\frac{1}{2}$

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(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

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

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

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

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(from Unit 4, Lesson 4)

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