

Estimating and Finding Quotients

Lesson 2-7

DATE _____

TIME _____

Math Message

- 1 For each problem, circle the number model that correctly represents the situation. Then solve the problem.

- a. It takes Melissa $\frac{1}{2}$ hour to walk to the store.
She walks 1 block in 5 minutes ($\frac{1}{12}$ of an hour).
How many blocks does she walk to the store?

$$\frac{1}{2} \div \frac{1}{12}$$
$$\frac{1}{12} \div \frac{1}{2}$$

Answer: _____

- b. CJ decorated a costume with fabric-covered buttons.
He used $4\frac{1}{2}$ inches of fabric for 6 buttons.
He used the same amount of fabric for each button.
How many inches of fabric did he use for one button?

$$4\frac{1}{2} \div 6$$
$$6 \div 4\frac{1}{2}$$

Answer: _____

For Problems 2–5, circle the best estimate and the correct number model. Then solve.

- 2 Angelina has $2\frac{1}{4}$ feet of ribbon. She uses $\frac{3}{4}$ of a foot of ribbon to wrap each gift.
How many gifts can she wrap?

Estimate:

More than 2 gifts

Fewer than 2 gifts

Number model:

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

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

Answer: _____

- 3 Sam wants to split his phone time equally between 2 friends. Sam has $\frac{3}{4}$ of an hour to talk on the phone. How long can he talk to each friend?

Estimate:

More than $\frac{3}{4}$ hourLess than $\frac{3}{4}$ hour

Number model:

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

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

Answer: _____

Estimating and Finding Quotients (continued)

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- 4 Thalia wants to make a macaroni necklace for her younger sister. She measured the macaroni and found that each piece was $\frac{7}{8}$ of an inch long. How many macaroni pieces does she need to make a 14-inch necklace?

Estimate:

More than 14

Less than 14

Number model:

$14 \div \frac{7}{8}$

$\frac{7}{8} \div 14$

Answer: _____

- 5 Andre is timing his laps around the track. Each lap is $\frac{1}{2}$ mile long. He runs 6 laps at a constant pace. He runs for $\frac{3}{4}$ of an hour. How long does it take him to run 1 lap?

Best estimate:

More than $\frac{3}{4}$ hourLess than $\frac{3}{4}$ hour

Number model:

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

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

Answer: _____

Try This

- 6 a. The quotient is greater than the dividend. Circle the true statement.

The divisor is greater than 1.

The divisor is between 0 and 1.

- b. Write a true number sentence that fits the description in Part a.

- 7 a. The quotient is less than the dividend. Circle the true statement.

The divisor is greater than 1.

The divisor is between 0 and 1.

- b. Write a true number sentence that fits the description in Part a.



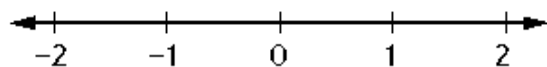
- 1 Use the grid method to find the LCM and GCF of 56 and 84.

$$\text{GCF}(56, 84) = \underline{\hspace{2cm}}$$

$$\text{LCM}(56, 84) = \underline{\hspace{2cm}}$$



- 2 Plot and label each point.



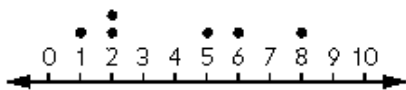
$$A: -\frac{3}{4}$$

$$B: 1\frac{3}{4}$$

$$C: -\frac{7}{4}$$

$$D: \text{opposite of } \frac{1}{2}$$

- 3 Draw a triangle under the number line to show the balance point.



- 4 Name three fractions between $\frac{1}{3}$ and $\frac{1}{4}$.

- 5 **Writing/Reasoning** Explain how you found the balance point in Problem 3.