

$$\textcircled{1} \frac{3 \cdot \cancel{6}}{9} \cdot \frac{\cancel{9}^1}{\cancel{5}^1} = \frac{5}{5} = 1$$

$$\textcircled{5} \frac{1 \cdot \cancel{8}}{3 \cdot \cancel{9}} \cdot \frac{\cancel{12}}{\cancel{4}} = \frac{1}{3}$$

$$\textcircled{2} \frac{8}{12} \cdot \frac{\cancel{18}}{\cancel{15}} = \frac{8}{15} \quad \textcircled{4} \frac{3}{13} \cdot \frac{14}{17} = \frac{42}{221}$$

$$\textcircled{6} \frac{\cancel{7}}{\cancel{12}} \cdot \frac{\cancel{50}^5}{\cancel{12}} = \frac{5}{12}$$

$$\textcircled{7} \frac{3}{5} \cdot \frac{6}{7} = \frac{18}{35}$$

Exploring Fraction-Division Situations

Lesson 2-6

DATE _____

TIME _____

Math Message

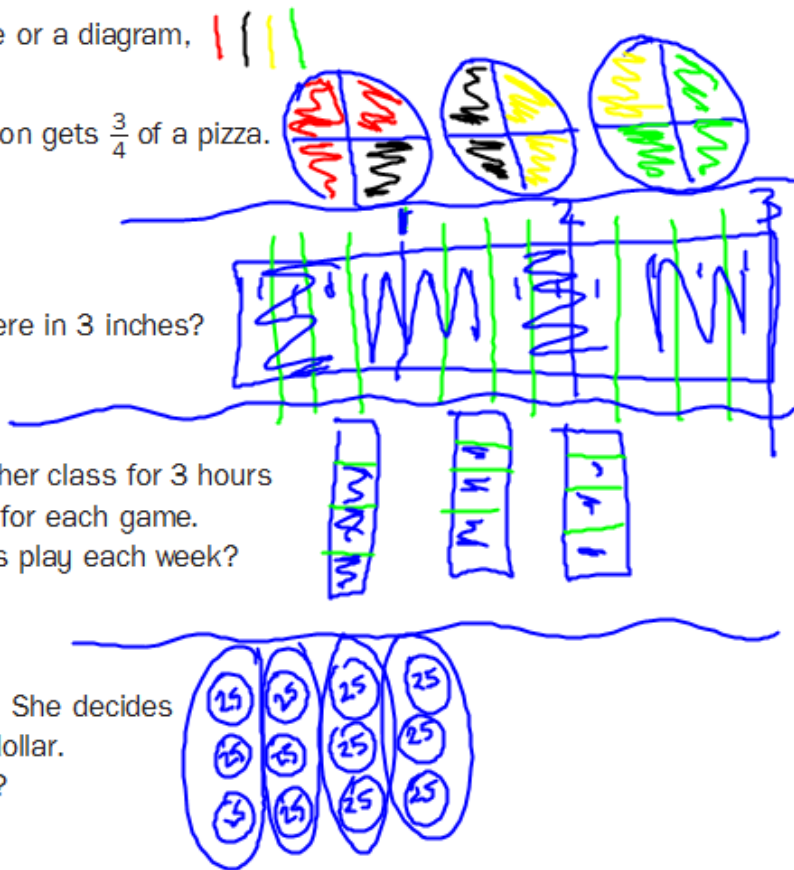
- 1 Represent each situation with a picture or a diagram, and then solve the problem.

- a. You have 3 large pizzas. Each person gets $\frac{3}{4}$ of a pizza. How many people can you serve?

- b. How many $\frac{3}{4}$ -inch segments are there in 3 inches?

- c. One teacher plays math games in her class for 3 hours per week. She allows $\frac{3}{4}$ of an hour for each game. How many games can her students play each week?

- d. Michelle's piggy bank holds \$3.00. She decides to give each of her friends $\frac{3}{4}$ of a dollar. How many friends can she include?



Use pictures or diagrams to show how you solved Problems 2–5. Write a number sentence for each problem.

- 2 You have $\frac{3}{4}$ of a book left to read. You read $\frac{1}{4}$ of the book every day. How many days will it take to finish the book?

$$\frac{3}{4} \div \frac{1}{4} = 3 \text{ days}$$

Number sentence: _____

- 3 You babysit for $\frac{2}{3}$ of an hour every week. You got paid for a total of $2\frac{2}{3}$ hours of babysitting. How many weeks did you babysit?

Number sentence: _____



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

$$\frac{3}{4} \cdot \frac{4}{1} = \frac{12}{4} = 3$$

① Change to multiplication
② Flip the second fraction.

$$\frac{5}{3} \div \frac{4}{5} = \frac{5}{3} \cdot \frac{5}{4} = \frac{25}{12}$$

$$\frac{9}{17} \div \frac{1}{8} = \frac{9}{17} \cdot \frac{8}{1} = \frac{72}{17}$$

$4\frac{4}{17}$

$$4\overline{)72} \begin{array}{r} 04 \\ -68 \\ \hline 4 \end{array}$$

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

$$\frac{8}{1} \cdot \frac{2}{1} = 16$$

Exploring Fraction-Division Situations (continued)

Lesson 2-6

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- 4 Students found that their average shoe length was about $\frac{3}{4}$ of a foot.

They measured their reading rug with a ruler and found it was $6\frac{3}{4}$ feet long.

How many of their “average” shoes could they line up on the rug?

Number sentence: _____

- 5 Milk was on sale at the grocery store. Delna’s mom bought $2\frac{1}{2}$ gallons of milk. Delna’s family drank about $\frac{1}{2}$ gallon of milk per day. About how long did the milk supply last?

Number sentence: $2\frac{1}{2} \div \frac{1}{2} =$ _____

- 6 Record your number sentences from Problems 2–5 below. If you used mixed numbers, rewrite your number sentences with equivalent fractions.

- 7 Look at the numerators and denominators in your number sentences in Problem 6. Describe the patterns that you see.

Common-Denominator Fraction Division

Lesson 2-6

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Use the patterns you described in Problem 7 on journal page 73 to solve the fraction-division problems.

1 Solve. Check your answers by multiplying.

a. $\frac{6}{4} \div \frac{2}{4} =$ _____

b. $3\frac{1}{5} \div \frac{8}{5} =$ _____

c. $5\frac{3}{3} \div \frac{9}{3} =$ _____

d. $\frac{8}{11} \div \frac{2}{11} =$ _____

2 These problems do not have common denominators. Think: "What should I do to the fractions and mixed numbers so I can use the common-denominator strategy?"

Solve. Check your answers.

a. $\frac{6}{2} \div \frac{1}{4} =$ _____

b. $\frac{3}{4} \div \frac{3}{12} =$ _____

c. $\frac{6}{4} \div \frac{1}{2} =$ _____

d. $\frac{36}{10} \div \frac{9}{5} =$ _____

e. $5\frac{3}{3} \div \frac{9}{6} =$ _____

f. $\frac{1}{2} \div \frac{1}{6} =$ _____

g. $\frac{42}{8} \div \frac{3}{4} =$ _____

h. $\frac{24}{18} \div \frac{2}{3} =$ _____

i. $\frac{40}{16} \div \frac{5}{8} =$ _____

3 Use one of the number sentences from Problem 2. Write and solve a number story by dividing fractions.

Try This

4 Lisette noticed that you can solve the problems without always finding common denominators. She claimed that you divide the numerators to get the numerator of the quotient, and you divide the denominators to find the denominator of the quotient. Explain how her strategy is related to the common-denominator strategy.

Decimal Review

Lesson 2-6

DATE _____

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1 Write the place value for each underlined digit.

a. 59.01 _____

b. 725.326 _____

c. 3,598.7 _____

d. 1,000,000.001 _____

2 Put the numbers in order from least to greatest.

a. 0.7, 0.72, 0.714 _____

b. 3.8, 0.38, 38 _____

c. 10.003, 10.30, 10.301 _____

d. 5.4, 6.32, 6, 5.382, 6.5 _____

3 Multiply or divide mentally.

a. $0.5 * 4 =$ _____

b. $0.25 * 10 =$ _____

c. $15 \div 10 =$ _____

d. $6.8 \div 2 =$ _____

4 Write a fraction that is equivalent to each decimal number.

a. $0.8 =$ _____

b. $0.9 =$ _____

c. $0.5 =$ _____

d. $0.13 =$ _____

5 Write a number that is described by each statement.

a. The opposite of 2.5: _____

b. A number between -4 and -4.2 : _____

6 Josiah had 8 books from a series to put on his bookshelf.

Each book was about 1.25 inches wide.

About how much shelf space did he need for the 8 books? _____



1 Multiply.

a. $\frac{1}{4} * \frac{3}{5} =$ _____

b. $\frac{1}{2} * \frac{7}{8} =$ _____

c. _____ = $\frac{3}{4} * \frac{5}{9}$

d. _____ = $\frac{2}{5} * \frac{4}{5}$

 SRB
100-109

 SRB
105

2 Find three pairs of numbers that have a greatest common factor of 1.

GCF (_____, _____) = 1

GCF (_____, _____) = 1

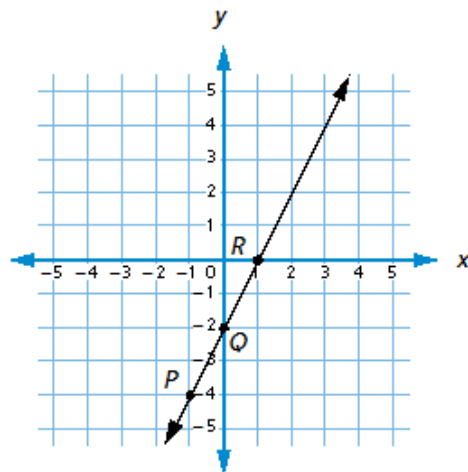
GCF (_____, _____) = 1

3 Write the ordered pair for each of the following points on the line.

P: _____

Q: _____

R: _____


 SRB
95-98

4 There are 89 students going on the field trip to the zoo. Each of 8 chaperones will lead a group. How many students should be in each group? Check all that apply.

7 groups of 11, 1 group of 9

8 groups of 11, 1 group of 12

7 groups of 11, 1 group of 12

8 groups of 11, 1 group of 9

 SRB
32

5 Estimate the sum of each problem below.

a. $5.6 + 3.9$ $6 + 4$
Estimate: 10

b. $0.89 + 2.5$
Estimate: _____

c. $9.1 + 1.2$
Estimate: _____

d. $14.87 + 5.96$
Estimate: _____

 SRB
113-114