

Solve Each Problem Below

$$\frac{1}{4} + \frac{1}{5} =$$

$$\frac{2}{3} + \frac{3}{4} =$$

$$\frac{3}{5} - \frac{1}{4} =$$

$$2\frac{1}{5} + 3\frac{2}{3} =$$

$$3\frac{4}{5} + 1\frac{1}{2} =$$

$$2\frac{4}{5} - 1\frac{1}{2} =$$

$$3\frac{1}{3} - 1\frac{4}{5} =$$

$$\frac{4}{5} \times \frac{2}{7} =$$

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

$$1\frac{2}{5} \times 2\frac{1}{2} =$$

$$5 \div \frac{1}{4} =$$

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

Solve each word problem below. Write the math expression OR draw a model to solve.

Mrs. Duke had several parts of pizzas left over. She had $\frac{3}{4}$ of a pepperoni, $\frac{2}{3}$ of a sausage, $\frac{3}{8}$ of a mushroom, and $\frac{1}{3}$ of a cheese. How much total pizza did she have?

Shelia baked some cookies. OF the 60 cookies she baked, $\frac{1}{3}$ were chocolate chip, $\frac{1}{4}$ were peanut butter, and the rest were oatmeal.

How many cookies were chocolate chip?

How many cookies were peanut butter?

How many cookies were oatmeal?

George had $\frac{3}{4}$ of a cake left after dinner. Of that $\frac{1}{3}$ of it was covered in nuts. The rest was covered in strawberries.

What part of the cake was covered in nuts?

What part of the cake was covered in strawberries?

John had a 12 foot piece of wood. He makes a cut every $\frac{1}{3}$ foot. Into how many pieces did he cut the wood?

Bob had $\frac{1}{2}$ of a pie that he is sharing equally between himself, his brother, and his sister. How much of the pie would they each get?

Ready® Mathematics**Unit 2 Unit Assessment****Form A****Solve the problems.**

- 1** A group of hikers walked $2\frac{3}{5}$ miles along a hiking trail. Another group of hikers walked $\frac{1}{2}$ of that distance with the first group before turning off onto another trail. How many miles did the two groups of hikers walk with each other?

Show your work.

- 2** Ava has a 20-foot length of wire. She cuts the wire into 6 pieces of equal length. The length of each piece of wire will fall between which two whole-number lengths?

- A** 2 and 3 feet
- B** 3 and 4 feet
- C** 4 and 5 feet
- D** 5 and 6 feet

- 3** Draw a model to show $4 \div \frac{1}{2}$. Then write the related multiplication equation that also solves the problem.

$$4 \div \frac{1}{2} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



Unit 2 Unit Assessment *continued***Form A****4** Tell whether each statement is *True* or *False*.

- a. The product of $\frac{7}{5} \times \frac{1}{3}$ is greater than $\frac{1}{3}$. True False
- b. The product of $\frac{3}{4} \times \frac{2}{9}$ is greater than $\frac{2}{9}$. True False
- c. The product of $\frac{4}{3} \times \frac{2}{9}$ is less than $\frac{2}{9}$. True False
- d. The product of $\frac{5}{7} \times \frac{1}{3}$ is less than $\frac{1}{3}$. True False

5 Liam mixed together $1\frac{1}{4}$ quarts of orange juice and $2\frac{1}{2}$ quarts of pineapple juice. Then he added $1\frac{1}{2}$ quarts of seltzer to make punch. How much more juice than seltzer did Liam use to make punch?

Show your work.

6 Hillary walks a 7-mile scenic walkway that stretches from the west to the east end of a park. There is a bench at each $\frac{1}{2}$ mile and one at the east end of the walkway. Which expression can be used to find the number of benches along the walkway? Circle all correct answers.

- A** $7 \div \frac{1}{2}$ **D** $7 \times \frac{1}{2}$
- B** $\frac{1}{2} \div 7$ **E** 7×2
- C** $\frac{7}{2} \times 1$



Unit 2 Unit Assessment *continued***Form A**

- 7 Consider the expression $\frac{3}{3} \times \frac{6}{4}$.

Part A

Shade the number line to represent $\frac{3}{3} \times \frac{6}{4}$.

**Part B**

Explain how the product compares to the factor $\frac{6}{4}$.

Part C

What whole number can the factor $\frac{3}{3}$ be written as? Explain how multiplying $\frac{6}{4}$ by the factor $\frac{3}{3}$ is similar to multiplying $\frac{6}{4}$ by this whole-number factor.



Unit 2 Unit Assessment continued**Form A**

- 8** In a tutoring session, $\frac{2}{3}$ hour was spent reviewing math problems. Adelina attended $\frac{3}{4}$ of the tutoring session. How much time did Adelina spend at the tutoring session?
Show your work.
- 9** Darius uses $2\frac{3}{4}$ cups of strawberries and $3\frac{1}{3}$ cups of blueberries to make a fruit salad. Which is a reasonable estimate for the amount of fruit Darius uses to make the fruit salad?
- A** between 5 and $5\frac{1}{2}$ cups
- B** between $5\frac{1}{2}$ and 6 cups
- C** between 6 and $6\frac{1}{2}$ cups
- D** between $6\frac{1}{2}$ and 7 cups
- 10** A floor rug is $\frac{1}{3}$ yard wide and $\frac{8}{3}$ yards long. How many square yards of floor does the rug cover?
Show your work.



Unit 2 Unit Assessment *continued***Form A**

- 11** Consider the expression $\frac{1}{2} \div 5$.

Part A

Draw a model to represent $\frac{1}{2} \div 5$.

Part B

Use your model to find the value of $\frac{1}{2} \div 5$. Then write the related multiplication equation.

$$\frac{1}{2} \div 5 = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

- 12** Eleni has $\frac{1}{3}$ pound of shredded cheese. She used an equal amount of the cheese on each of 6 pizzas. What fraction of a pound of cheese did Eleni use on each pizza?

Show your work.



Unit 2 Unit Assessment *continued***Form A**

- 13** Max is exploring multiplying $\frac{3}{8}$ by different fractions.

Part A

Max says that the product of $\frac{2}{3} \times \frac{3}{8}$ is greater than $\frac{3}{8}$. Is Max correct? Explain.

Part B

Max says that the product of $\frac{3}{2} \times \frac{3}{8}$ is less than $\frac{3}{8}$. Is Max correct? Explain.

- 14** Tell whether each statement about the fraction $\frac{4}{7}$ is correct. Choose *Yes* or *No*.

- a. $\frac{4}{7}$ is the same as $4 \div 7$. Yes No
- b. $\frac{4}{7}$ is the same as $7 \div 4$. Yes No
- c. $\frac{4}{7}$ is the same as $4 \times \frac{1}{7}$. Yes No
- d. $\frac{4}{7}$ is the same as $7 \times \frac{1}{4}$. Yes No

