

## Unit 5 Assessment

- ① a. Write an equation to show  $\frac{4}{5}$  as the sum of unit fractions.

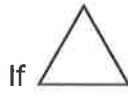
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
- b. Decompose each fraction in two different ways. Write equations to show each fraction as a sum of fractions with the same denominator.

$\frac{7}{12}$  \_\_\_\_\_

$1\frac{2}{5}$  \_\_\_\_\_

- ② Use your Geometry Template to draw the solution. Then write an equation to show your answer.



If  is  $\frac{1}{2}$ , what is the whole?

Equation: \_\_\_\_\_

Use manipulatives or drawings to help you solve Problems 3–5.

- ③ Elly, Fred, and Garry shared a bowl of chocolate pudding. Elly ate  $\frac{2}{6}$ , Fred ate  $\frac{3}{6}$ , and Garry ate  $\frac{1}{6}$ . How much of the pudding did they eat?

Number model with unknown: \_\_\_\_\_

Answer: \_\_\_\_\_ bowl

**Unit 5 Assessment** (continued)

- ④ Mrs. Scarlett used  $1\frac{3}{8}$  cups of shredded cabbage to make coleslaw. Ms. White used  $2\frac{3}{8}$  cups. How much cabbage did they use together?

Number model with unknown: \_\_\_\_\_

Answer: \_\_\_\_\_ cups

- ⑤ Use manipulatives or drawings to help you solve the following problems.

a.  $\frac{3}{6} + \frac{2}{6} =$  \_\_\_\_\_

b.  $\frac{6}{12} + \frac{7}{12} =$  \_\_\_\_\_

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

d.  $1\frac{3}{4} + 2\frac{2}{4} =$  \_\_\_\_\_

- ⑥ Solve.

$$\frac{2}{10} + \frac{70}{100} = \underline{\hspace{2cm}}$$

Use manipulatives or drawings to help you solve Problems 7–9.

- ⑦ During an exercise class at the gym, Nancy drank  $\frac{6}{10}$  of a liter of water. Dom drank  $\frac{9}{10}$  of a liter. How much more did Dom drink than Nancy?

Number model with unknown: \_\_\_\_\_

Answer: \_\_\_\_\_ liter

**Unit 5 Assessment** (continued)

- ⑧ Maya lives  $4\frac{1}{4}$  blocks from her new school. She lived  $2\frac{3}{4}$  blocks from her old school. How much farther from home is her new school than her old school?

Number model with unknown: \_\_\_\_\_

Answer: \_\_\_\_\_ blocks

Subtract.

⑨ a.  $\frac{2}{3} - \frac{1}{3} =$  \_\_\_\_\_

b. \_\_\_\_\_ =  $\frac{6}{8} - \frac{2}{8}$

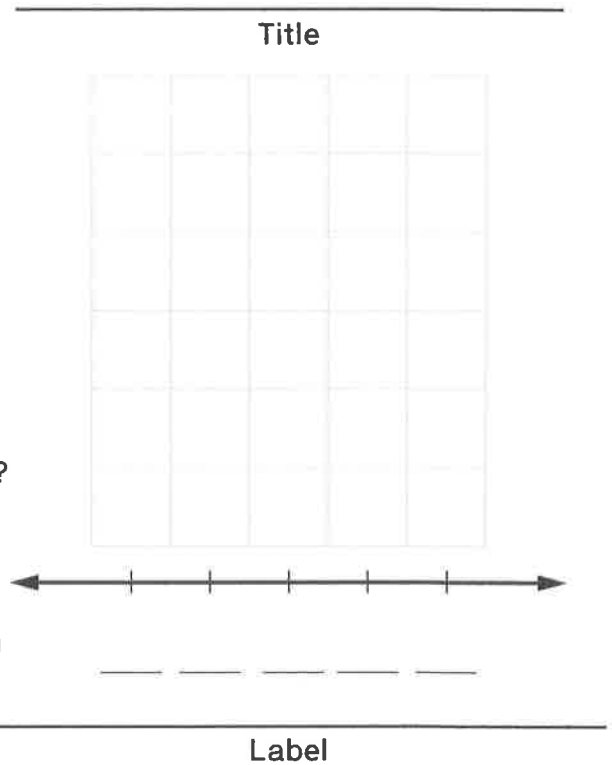
c.  $2\frac{3}{5} - 1\frac{1}{5} =$  \_\_\_\_\_

d. \_\_\_\_\_ =  $6\frac{5}{12} - 4\frac{7}{12}$

- ⑩ Use the data to create a line plot and answer questions about it. The students in Ms. Elder's class measured their little fingers to the nearest  $\frac{1}{2}$  centimeter. The measurements they gathered were:

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

- Make a line plot displaying the data. Be sure to include a title and label.
- What is the length of the longest finger?  
\_\_\_\_\_ cm
- What is the length of the shortest finger?  
\_\_\_\_\_ cm
- What is the difference in length between the longest and shortest fingers? Write a number model to show your solution.  
\_\_\_\_\_



Answer: \_\_\_\_\_ cm



## Unit 5 Assessment (continued)

- 11 Draw pictures of these turns, using an arc to show the direction of each one. The vertex of the angle and one side have already been drawn for you.

a.  $\frac{1}{2}$  turn clockwise



b.  $\frac{1}{4}$  turn counterclockwise



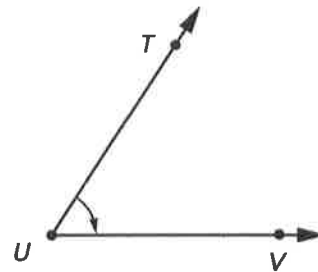
- 12 a. Estimate the size of the angle at the right. Circle the best answer.

0–90 degrees

90 degrees

90–180 degrees

Angle  $TUV$  is a(n) \_\_\_\_\_ (acute, obtuse, or right) angle.



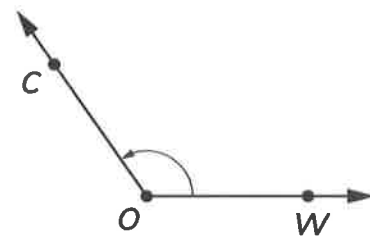
- b. Estimate the size of the angle at the right. Circle the best answer.

0–90 degrees

90 degrees

90–180 degrees

Angle  $COW$  is a(n) \_\_\_\_\_ (acute, obtuse, or right) angle.



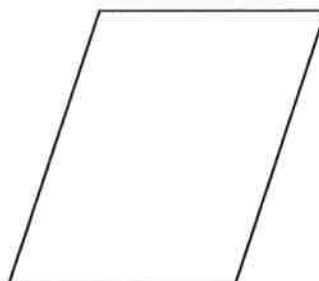
**Unit 5 Assessment** (continued)

- 13 Draw all the lines of symmetry for the shapes that are symmetrical.

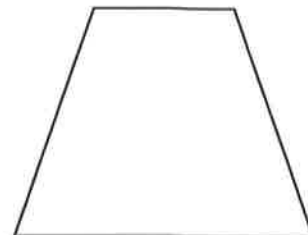
a.



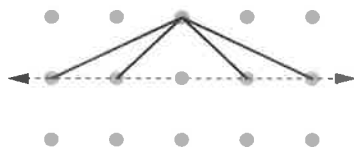
b.



c.



- 14 Draw the other half to make a symmetric shape.



- 15 Three girls each want to buy a rock-collecting container and a magnifying glass. Together they have \$55. If each container costs \$14 and each magnifying glass costs \$3, how much money will the girls have left over after they purchase all of the items?

Number model with unknown: \_\_\_\_\_

Answer with unit: \_\_\_\_\_

NAME

DATE

TIME

Lesson 5-14



## Unit 5 Challenge

It took Denise  $\frac{3}{4}$  of an hour to drive from Zion to Platt and  $\frac{1}{2}$  of an hour to drive from Platt to Rome. To figure out her total driving time, Denise wrote the following number model:  $\frac{3}{4} + \frac{1}{2} = \frac{4}{6}$ .

Do you agree that it took her about  $\frac{4}{6}$  of an hour? \_\_\_\_\_ Explain.

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