

## Ch. 5 Study Guide

Name: \_\_\_\_\_

1. Write an equation to show  $\frac{3}{4}$  as the sum of unit fractions.

\_\_\_\_\_

2. Decompose each fraction in 2 different ways. Write equations to show each fraction as a sum of fractions with the same denominator.

a.  $\frac{5}{10}$  \_\_\_\_\_

b.  $1\frac{3}{7}$  \_\_\_\_\_

3. 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: \_\_\_\_\_

4. Jamie, Carrie, and Johnny shared a bowl of vanilla ice-cream. Jamie ate  $\frac{1}{7}$ , Carrie ate  $\frac{3}{7}$ , and Johnny ate  $\frac{3}{7}$ . How much of the vanilla ice-cream did they eat?

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

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

5. Ms. Baumann used  $2\frac{2}{6}$  cups of chocolate chips to make cookies. Mrs. Zastro used  $3\frac{3}{6}$  cups. How much chocolate chips did they use together?

Number Model with the unknown: \_\_\_\_\_

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

6. Solve. You can use manipulative or drawing to help you solve the problems.

a.  $\frac{2}{8} + \frac{3}{8} =$  \_\_\_\_\_

b.  $\frac{4}{11} + \frac{8}{11} =$  \_\_\_\_\_

c.  $3\frac{1}{6} + 2\frac{4}{6} =$  \_\_\_\_\_

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

7. Solve

$\frac{3}{10} + \frac{80}{100} =$  \_\_\_\_\_

8. Solve. You can use manipulatives or drawings to help you.

During a basketball game, Danny drank  $\frac{4}{9}$  of a liter of water. Soozie drank  $\frac{8}{9}$  of a liter. How much more did Soozie drink than Danny?

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

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

9. Bobby lives  $5\frac{2}{8}$  blocks from his new job. He lived  $3\frac{6}{8}$  blocks from his old job. How much farther from home is his new job than his old job?

Number Model with unknown: \_\_\_\_\_

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

# 10. Subtract

a.  $4/5 - 2/5 =$  \_\_\_\_\_

b. \_\_\_\_\_  $= 8/10 - 6/10$

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

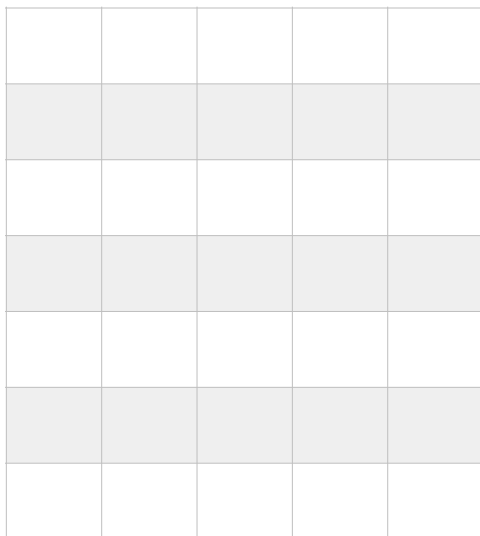
d. \_\_\_\_\_  $= 7 \frac{4}{13} - 5 \frac{6}{13}$

11. Use the data to create a line plot and answer questions about it. The students in Mrs. Kedzior's class measured their big toes to the nearest  $\frac{1}{2}$  centimeter. The measurements they gathered were:

4,  $4 \frac{1}{2}$ ,  $4 \frac{1}{2}$ , 3,  $3 \frac{1}{2}$ , 4, 5, 5,  $4 \frac{1}{2}$ , 5,  $3 \frac{1}{2}$ , 4, 5,  $3 \frac{1}{2}$ , 5

a. Make a line plot displaying the data.  
Be sure to include a title and label.

Title: \_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_

Label

b. What is the length of the longest toe? \_\_\_\_\_cm

c. What is the length of the shortest toe? \_\_\_\_\_cm

d. What is the difference in length between the longest and shortest fingers?

Write a number model to show your solution. \_\_\_\_\_

Answer: \_\_\_\_\_cm

12. 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

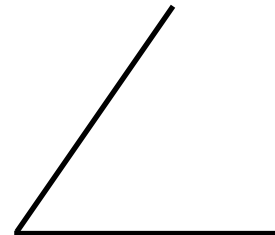


13. a. Estimate the size of the angle. Circle the best answer.

0-90 degrees

90 degrees

90-180 degrees



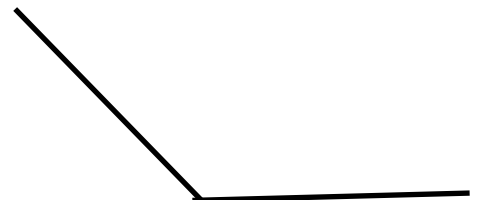
Angle ABC is a(n) \_\_\_\_\_ (acute, obtuse, or right) angle.

b. Estimate the size of the angle. Circle the best answer.

0-90 degrees

90 degrees

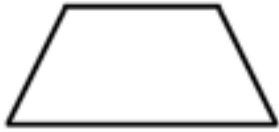
90-180 degrees



Angle DEF is a(n) \_\_\_\_\_ (acute, obtuse, or right) angle

**14. Draw all the lines of symmetry for the shapes that are symmetrical.**

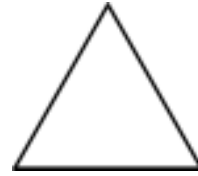
**a.**



**b.**



**c.**



**15. Three boys each want to buy a Halo action figure and a football. Together they have ₦95. If each Halo action figure costs ₦17 and each football costs ₦6, how much money will the boys have left over after they purchase all of the items?**

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

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