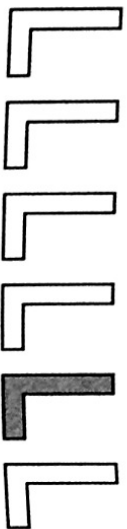


Name _____

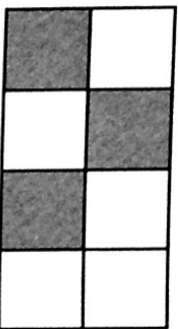
Meanings of Fractions

Write the fraction that names the shaded part.

1.



2.



In **3** and **4**, draw a model to show each fraction.

3. $\frac{4}{8}$ as part of a set

4. $\frac{5}{10}$ as part of a region

5. Number Sense If $\frac{5}{17}$ of a region is shaded, what part is not shaded?

6. Camp Big Trees has 3 red canoes and 4 blue canoes. What fraction of the canoes are red?

7. In a class of 24 students, 13 students are girls. What fraction of the students are boys?

A $\frac{11}{13}$

B $\frac{11}{24}$

C $\frac{13}{24}$

D $\frac{24}{11}$

8. Explain It Trisha says that if $\frac{5}{7}$ of her pencils are yellow, then $\frac{2}{7}$ are not yellow. Is she correct? Explain.

Name _____

Practice

9-2

Fractions and Division

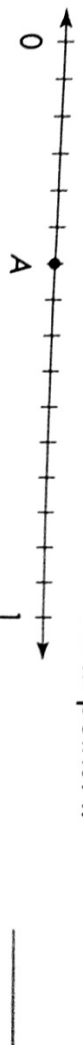
Give each answer as a fraction. Then graph the answer on the number line.

1. $3 \div 7$ _____ 

2. $4 \div 9$ _____ 

3. $1 \div 5$ _____ 

4. Use the number line to name the fraction at point A.



At a golf course, there are 18 holes. Of the 18 holes, 3 are par threes, 8 are par fours, and 7 are par fives. What fraction of the holes are _____

5. par fives? _____ 6. par threes? _____ 7. par fours? _____

8. **Number Sense** Explain how you know that $7 \div 9$ is less than 1.

9. After school, Chase spends 20 min reading, 30 min practicing the piano, 15 min cleaning his room, and 40 min doing his homework. Chase is busy for 105 min. What fraction of the time does he spend cleaning his room? _____

10. Venietta read 4 books in 7 weeks. How many books did she read each week?

A $\frac{6}{7}$

B $\frac{4}{7}$

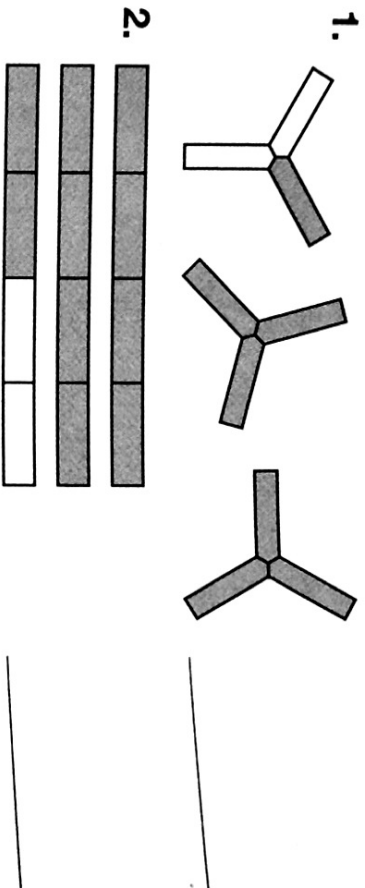
C $\frac{3}{7}$

D $\frac{2}{7}$

11. **Explain It** In 5 min, Peter completed 2 math problems. Yvonne says he did $\frac{3}{5}$ of a problem each minute. Is she correct? Explain.

Mixed Numbers and Improper Fractions

Write an improper fraction and a mixed number for each model.



Write each improper fraction as a mixed number.

3. $\frac{12}{7}$ _____

4. $\frac{7}{3}$ _____

5. $\frac{5}{2}$ _____

6. $\frac{9}{4}$ _____

7. $\frac{29}{13}$ _____

8. $\frac{34}{8}$ _____

Write each mixed number as an improper fraction.

9. $2\frac{4}{5}$ _____

10. $8\frac{7}{9}$ _____

11. $3\frac{6}{7}$ _____

12. $7\frac{1}{8}$ _____

13. $4\frac{3}{7}$ _____

14. $5\frac{1}{4}$ _____

15. **Number Sense** Jasmine has 41 lb of dog food to pour into 5 dishes. How many pounds of dog food should she pour in each dish?

A $4\frac{1}{5}$ lb

B $8\frac{1}{5}$ lb

C 10 lb

D $11\frac{1}{8}$ lb

16. **Explain It** Hank needs 3 quarters to play one video game each time. If he has 14 quarters, how many times can he play? Explain.

Equivalent Fractions

Name two equivalent fractions for each fraction.

1. $\frac{5}{15}$ _____ 2. $\frac{6}{36}$ _____ 3. $\frac{2}{12}$ _____

4. $\frac{4}{28}$ _____ 5. $\frac{3}{21}$ _____ 6. $\frac{2}{11}$ _____

Find the missing number to make the fractions equivalent.

7. $\frac{4}{13} = \frac{8}{x}$ _____ 8. $\frac{12}{30} = \frac{n}{90}$ _____

9. $\frac{9}{54} = \frac{2}{9}$ _____ 10. $\frac{14}{h} = \frac{7}{20}$ _____

11. Renie gave each of six people $\frac{1}{10}$ of a veggie pizza. Renie has $\frac{2}{5}$ of the pizza left. Explain how this is true.

12. Which fraction is equivalent to $\frac{3}{7}$?

- A $\frac{3}{6}$ B $\frac{6}{14}$ C $\frac{3}{17}$ D $\frac{7}{7}$

13. **Explain It** Jacqueline had four \$5 bills. She bought a shirt for \$10. Explain what fraction of her money Jacqueline has left. Use equivalent fractions.

Comparing and Ordering Fractions and Mixed Numbers

Compare the numbers. Write $>$, $<$, or $=$ for each \bigcirc .

1. $\frac{6}{7} \bigcirc \frac{6}{8}$

2. $\frac{4}{9} \bigcirc \frac{2}{3}$

3. $1\frac{1}{10} \bigcirc 1\frac{1}{12}$

4. $2\frac{4}{5} \bigcirc 2\frac{5}{6}$

5. $3\frac{6}{9} \bigcirc 3\frac{2}{3}$

6. $\frac{2}{5} \bigcirc \frac{2}{8}$

Order the numbers from least to greatest.

7. $\frac{4}{6}, \frac{4}{8}, \frac{3}{4}, \frac{5}{8}$

8. $4\frac{1}{4}, 4\frac{1}{8}, 5\frac{10}{11}, 4\frac{2}{16}$

9. $1\frac{3}{7}, 1\frac{3}{4}, 1\frac{2}{4}, 1\frac{8}{14}$

10. **Number Sense** How do you know that $5\frac{1}{4}$ is less than $5\frac{4}{10}$?

11. A mechanic uses four wrenches to fix Mrs. Aaron's car. The wrenches are different sizes: $\frac{5}{16}$ in., $\frac{1}{2}$ in., $\frac{1}{4}$ in., and $\frac{7}{16}$ in. Order the sizes of the wrenches from greatest to least.

12. Which is greater than $6\frac{1}{3}$?

A $6\frac{1}{6}$

B $6\frac{1}{5}$

C $6\frac{1}{4}$

D $6\frac{1}{2}$

13. **Explain It** Compare $3\frac{3}{22}$ and $3\frac{2}{33}$. Which is greater? How do you know?

Common Factors and Greatest Common Factor

Find the GCF of each pair of numbers.

1. 15, 50 _____ 2. 6, 27 _____ 3. 10, 25 _____

4. 18, 32 _____ 5. 7, 28 _____ 6. 54, 108 _____

7. 25, 55 _____ 8. 14, 48 _____ 9. 81, 135 _____

10. **Number Sense** Can the GCF of 16 and 42 be less than 16? Explain.

11. A restaurant received a shipment of 42 gal of orange juice and 18 gal of cranberry juice. The juice needs to be poured into equal-sized containers. What is the largest amount of juice that each container can hold of each kind of juice? _____

12. At a day camp, there are 56 girls and 42 boys. The campers need to be split into equal groups. Each has either all girls or all boys. What is the greatest number of campers each group can have? _____

13. Which is the GCF of 24 and 64?

- A** 4 **B** 8 **C** 14 **D** 12

14. **Explain It** Do all even numbers have 2 as a factor? Explain.

Name _____

Fractions in Simplest Form

Write each fraction in simplest form.

1. $\frac{5}{10}$ _____

2. $\frac{6}{24}$ _____

3. $\frac{9}{27}$ _____

4. $\frac{3}{15}$ _____

5. $\frac{10}{12}$ _____

6. $\frac{9}{15}$ _____

7. $\frac{2}{18}$ _____

8. $\frac{25}{60}$ _____

9. $\frac{12}{72}$ _____

- 10.
- Number Sense**
- Explain how you can tell
- $\frac{4}{5}$
- is in simplest form.

Write in simplest form.

11. What fraction of the problems on the math test will be word problems?

- | |
|-------------------------------|
| Math Test |
| → 20 Multiple-choice problems |
| → 10 Fill in the blanks |
| → 5 Word problems |

12. What fraction of the problems on the math test will be multiple-choice problems? _____

13. Which is the simplest form of
- $\frac{10}{82}$
- ?

A $\frac{1}{8}$

B $\frac{1}{22}$

C $\frac{10}{82}$

D $\frac{5}{41}$

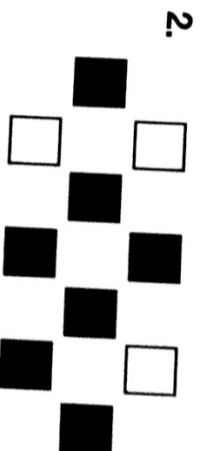
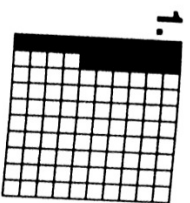
- 14.
- Explain It**
- Explain how you can find the simplest form of
- $\frac{100}{1,000}$
- .

Name _____

Tenths and Hundredths

Write a decimal and fraction for the shaded portion of each model.

Number Sense



Write each decimal as either a fraction or a mixed number.

3. 0.6

4. 0.73

5. 6.9

6. 8.57

Write each fraction or mixed number as a decimal.

7. $\frac{7}{10}$

8. $\frac{33}{100}$

9. $7\frac{2}{10}$

10. $3\frac{9}{100}$

Use division to change each fraction to a decimal.

11. $\frac{4}{5}$

12. $\frac{12}{25}$

13. $\frac{1}{50}$

14. $\frac{11}{20}$

15. **Strategy Practice** When you convert 0.63 to a fraction, which of the following could be the first step of the process?

- A Since there are 63 hundredths, multiply 0.63 and 100.
- B Since there are 63 tenths, divide 0.63 by 10.
- C Since there are 63 tenths, place 63 over 10.
- D Since there are 63 hundredths, place 63 over 100.

Thousandths

Write each decimal as either a fraction or a mixed number.

1. 0.007 _____

2. 0.052 _____

3. 0.038 _____

4. 0.259 _____

5. 3.020 _____

6. 4.926 _____

Write each fraction as a decimal.

7. $\frac{73}{1,000}$ _____

8. $\frac{593}{1,000}$ _____

9. $\frac{854}{1,000}$ _____

10. $\frac{11}{1,000}$ _____

11. $\frac{5}{1,000}$ _____

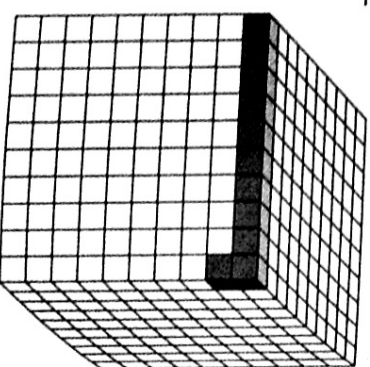
12. $\frac{996}{1,000}$ _____

Write the numbers in order from least to greatest.

13. $\frac{5}{1,000}$, 0.003, $\frac{9}{1,000}$ _____

14. 0.021, 0.845, $\frac{99}{1,000}$ _____

15. Look at the model at the right. Write a fraction and a decimal that the model represents.



16. **Reasoning** In Tasha's school, 0.600 of the students participate in a school sport. If there are one thousand students in Tasha's school, how many participate in a school sport?

A 6,000

B 600

C 60

D 6

17. **Explain It** Explain how knowing that $5 \div 8 = 0.625$ helps you write the decimal for $4\frac{5}{8}$.

Name _____

Practice

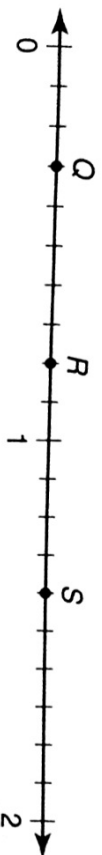
9-10

Fractions and Decimals on the Number Line

Draw a number line to show the set of numbers. Then order the numbers from least to greatest.

1. 0.75 , $\frac{8}{10}$, 0.2 , $\frac{2}{5}$

Write a fraction or mixed number in simplest form and a decimal that name each point.



2. Point Q _____ 3. Point R _____ 4. Point S _____

5. Uma recorded the distances that volunteers walked in the charity event. Grace walked $1\frac{3}{5}$ mi, Wendell walked 1.3 mi, and Simon walked $1\frac{1}{10}$ mi. Show these distances on a number line. Who walked the farthest? _____

6. **Number Sense** Which is a decimal that could go between the mixed numbers $4\frac{3}{5}$ and $4\frac{9}{10}$ on a number line?

A 4.45

B 4.5

C 4.75

D 4.92

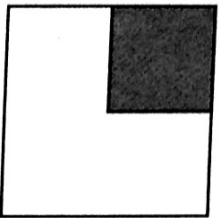
7. **Explain It** Explain how you know that 5.5 is to the right of $5\frac{1}{4}$ on the number line.

Name _____

Problem Solving: Writing to Explain

Estimate the fractional part of the shaded portions below.
Explain how you decided.

1.



2.



3. Draw a square and shade about $\frac{1}{8}$ of it. How did you decide how much to shade?

4. Draw two rectangles that are different sizes. Shade about $\frac{1}{2}$ of each. Are the shaded parts the same amount? Explain.

5. **Explain It** Look at a picture of the American flag. Approximately what part of the flag is blue? Explain.
