

Use the fraction bar below for Exercises 1–4.



- ① Label the first part of this fraction bar with the correct unit fraction.
- ② Circle the first four parts of the bar. What fraction of the whole does this circled portion represent?

\_\_\_\_\_

- ③ Write your fraction from Exercise 2 as a sum of unit fractions.

\_\_\_\_\_

- ④ Represent the whole as the sum of the unit fractions.

\_\_\_\_\_

- ⑤ Solve the problem below by circling parts of the fraction bar. Write the appropriate equation below the bar.

Brett is building a fence around his yard. He has worked on it for two weeks so far. He finished  $\frac{2}{8}$  the first week and  $\frac{3}{8}$  the second week. What fraction of the entire fence has he built?

\_\_\_\_\_

Eighths



- ⑥ Nena thinks that because  $4 < 6$ , it must also be true that  $\frac{1}{4} < \frac{1}{6}$ . Explain to Nena why this is incorrect.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

List all the factors of each number.

1 16 \_\_\_\_\_

2 29 \_\_\_\_\_

3 33 \_\_\_\_\_

4 40 \_\_\_\_\_

List the first four multiples of each number.

5 6 \_\_\_\_\_

6 11 \_\_\_\_\_

7 15 \_\_\_\_\_

8 1 \_\_\_\_\_

Complete.

9  $\frac{1}{3} + \frac{1}{3} =$  \_\_\_\_\_

10  $\frac{2}{7} + \frac{3}{7} =$  \_\_\_\_\_

11  $\frac{6}{10} - \frac{5}{10} =$  \_\_\_\_\_

12  $\frac{4}{6} + \frac{2}{6} =$  \_\_\_\_\_

13  $\frac{4}{9} - \frac{2}{9} =$  \_\_\_\_\_

14  $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} =$  \_\_\_\_\_

Write an equation. Then solve the problem.

- 15 Maggie has a ribbon 27 feet long. What is the length of the ribbon in yards?

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

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

- 16 Mañuel has 15 goldfish. This is 6 more than Quinn has. How many goldfish does Quinn have?

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

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

- 17 In their yearbook photo, students in the chorus stood in four rows with 13 students in each row. How many students are in the photo?

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

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

- 18 Julie bought 19 beads at the craft store. Now she has 36 beads. How many beads did she have before she went to the craft store?

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

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

- 19 **Stretch Your Thinking** Rashid bought some baseball cards. After giving 7 cards to his friend Grace, he arranged the remaining cards in 6 rows of 4. How many cards did he buy?

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

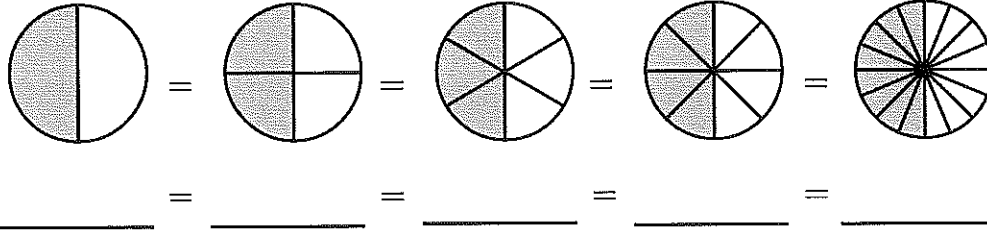
Answer: \_\_\_\_\_

# 1-2 Homework

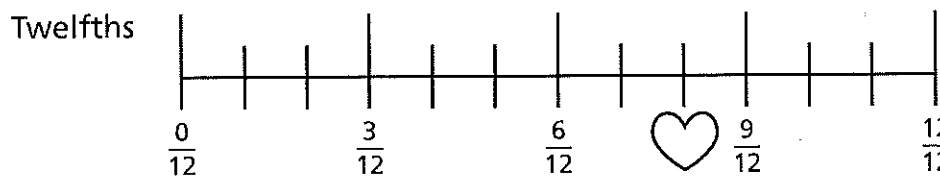
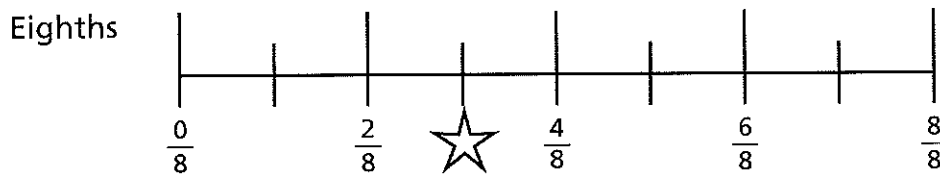
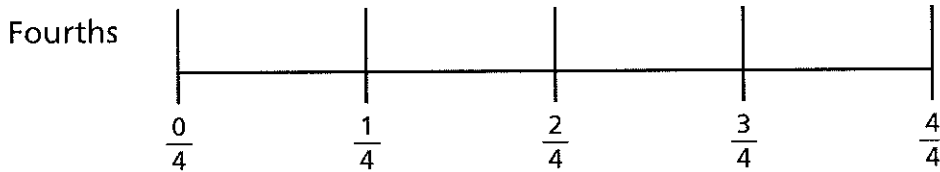
Name \_\_\_\_\_

Date \_\_\_\_\_

1 Write a chain of equivalent fractions for the shaded parts.



Use the number lines to complete Exercises 2–7.



- 2 What fraction is marked by the star? \_\_\_\_\_
- 3 What fraction is marked by the heart? \_\_\_\_\_
- 4 If you have  $\frac{3}{4}$  cup of flour, how many eighths do you have?  
\_\_\_\_\_
- 5 If you have  $\frac{3}{12}$  of an orange, how many fourths do you have?  
\_\_\_\_\_
- 6 Which is greater,  $\frac{3}{4}$  or  $\frac{10}{12}$ ? \_\_\_\_\_
- 7 Give two equivalent fractions for  $\frac{6}{8}$ . \_\_\_\_\_

Add or subtract.

①  $4,560 + 52,973 =$  \_\_\_\_\_

②  $581,002 + 26,596 =$  \_\_\_\_\_

③  $4,300,129 + 3,426 =$  \_\_\_\_\_

④  $398,000 - 213,546 =$  \_\_\_\_\_

- ⑤ Solve the problem below by circling parts of the fraction bar. Write the appropriate equation below the bar.

Molly is driving across the country. She covered  $\frac{2}{10}$  of the distance on the first day and  $\frac{3}{10}$  on the second day. What fraction of the distance did she cover in the first two days?

\_\_\_\_\_



Complete.

⑥  $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$  \_\_\_\_\_

⑦  $\frac{7}{10} + \frac{3}{10} =$  \_\_\_\_\_

⑧  $\frac{4}{5} - \frac{1}{5} =$  \_\_\_\_\_

⑨  $\frac{8}{10} +$  \_\_\_\_\_  $= 1$

⑩ \_\_\_\_\_  $+ \frac{2}{3} = 1$

⑪  $1 - \frac{3}{4} =$  \_\_\_\_\_

- ⑫ **Stretch Your Thinking** Alyssa said that  $\frac{6}{8}$  and  $\frac{9}{12}$  are not equivalent because there is no whole number you can multiply both parts of  $\frac{6}{8}$  by to get  $\frac{9}{12}$ . Is she correct? Explain.

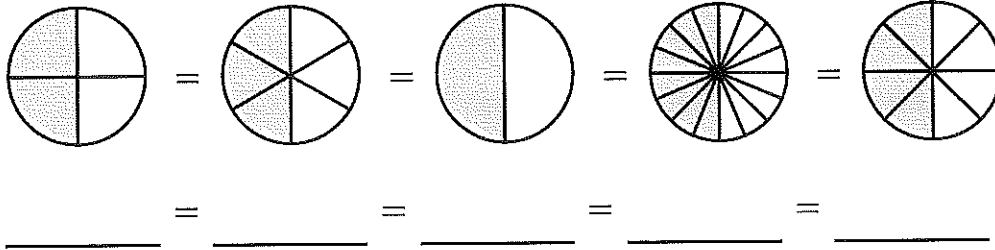
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- 1 Write a chain of equivalent fractions for the shaded parts.



Write the multiplier or divisor for each pair of equivalent fractions.

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

Divisor = \_\_\_\_\_

3  $\frac{2}{9} = \frac{6}{27}$

Multiplier = \_\_\_\_\_

4  $\frac{6}{60} = \frac{1}{10}$

Divisor = \_\_\_\_\_

5  $\frac{3}{10} = \frac{15}{50}$

Multiplier = \_\_\_\_\_

6  $\frac{21}{56} = \frac{3}{8}$

Divisor = \_\_\_\_\_

7  $\frac{5}{7} = \frac{30}{42}$

Multiplier = \_\_\_\_\_

8  $\frac{4}{16} = \frac{1}{4}$

Divisor = \_\_\_\_\_

9  $\frac{5}{9} = \frac{25}{45}$

Multiplier = \_\_\_\_\_

10  $\frac{10}{60} = \frac{1}{6}$

Divisor = \_\_\_\_\_

11  $\frac{3}{7} = \frac{18}{42}$

Multiplier = \_\_\_\_\_

12  $\frac{24}{56} = \frac{3}{7}$

Divisor = \_\_\_\_\_

13  $\frac{5}{6} = \frac{35}{42}$

Multiplier = \_\_\_\_\_

Complete each exercise about the pairs of fraction bars.

- 14 What equivalent fractions are shown? \_\_\_\_\_

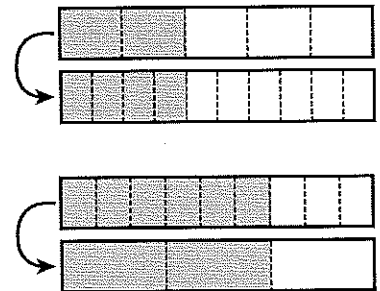
- 15 Identify the multiplier. \_\_\_\_\_

- 16 What equivalent fractions are shown? \_\_\_\_\_

- 17 Identify the divisor. \_\_\_\_\_

- 18 Write a chain with at least six equivalent fractions.

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In Exercises 1–3, use this fraction bar.



- ① Shade two of the equal parts. What fraction does the shaded portion model?

\_\_\_\_\_

- ② Split each equal part (each unit fraction) into two equal parts. What fraction does the shaded portion model now?

\_\_\_\_\_

- ③ Fill in the boxes to show how you unsimplified the original fraction.

$$\frac{2 \times \boxed{\phantom{00}}}{3 \times \boxed{\phantom{00}}} = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Solve.

*Show your work.*

- ④ A restaurant has 60 plates. One night, 9 groups of 6 people ate dinner at the restaurant at the same time. How many plates were not used by these diners?

\_\_\_\_\_

- ⑤ Clara has a garden that is 7 feet wide and 4 feet long. She has 30 tomato plants to put in the garden. Each plant needs 1 square foot of space. How many leftover plants will Clara have?

\_\_\_\_\_

- ⑥ **Stretch Your Thinking** Carol's bookshelf has 4 shelves with 6 books on each. Her brother Robert has 3 shelves with 7 books on each. They want to combine their books. If they put 9 books on a shelf, how many shelves will they need?

\_\_\_\_\_

Compare.

1  $\frac{5}{8} \bigcirc \frac{5}{9}$

2  $\frac{1}{5} \bigcirc \frac{1}{4}$

3  $\frac{2}{5} \bigcirc \frac{3}{5}$

4  $\frac{6}{8} \bigcirc \frac{2}{3}$

5  $\frac{10}{11} \bigcirc \frac{11}{12}$

6  $\frac{3}{8} \bigcirc \frac{5}{12}$

7  $\frac{5}{12} \bigcirc \frac{4}{7}$

8  $\frac{1}{3} \bigcirc \frac{4}{9}$

9  $\frac{1}{4} \bigcirc \frac{2}{9}$

10  $\frac{1}{12} \bigcirc \frac{1}{15}$

11  $\frac{7}{10} \bigcirc \frac{11}{15}$

12  $\frac{12}{25} \bigcirc \frac{51}{100}$

Solve.

*Show your work.*

- 13 During his first season on the school football team, Wade made 5 of the 9 field goals he tried. During his second season, he made 11 of the 15 field goals he tried. In which season did he make the greater fraction of the field goals he tried?
- \_\_\_\_\_

- 14 Mañuela bought  $\frac{11}{12}$  yard of polka dot fabric and  $\frac{7}{9}$  yard of flowered fabric. Which fabric did she buy more of?
- \_\_\_\_\_

- 15 Of the 7 pens in Ms. Young's desk, 3 are blue. Of the 9 pens in Mr. Fox's desk, 5 are blue. Which teacher has a greater fraction of pens that are blue?
- \_\_\_\_\_

- 16 Mr. Sommers spent 10 minutes of his 50-minute math period reviewing homework. Mr. Young spent 12 minutes of his 60-minute math period reviewing homework. Which teacher spent a greater fraction of his math period reviewing homework?
- \_\_\_\_\_

Complete.

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

$$\textcircled{2} \frac{8}{9} - \frac{4}{9} = \underline{\hspace{2cm}}$$

$$\textcircled{3} \frac{4}{5} + \frac{1}{5} = \underline{\hspace{2cm}}$$

$$\textcircled{4} \frac{3}{8} + \frac{3}{8} = \underline{\hspace{2cm}}$$

Write the multiplier or divisor for each pair of equivalent fractions.

$$\textcircled{5} \frac{5}{6} = \frac{10}{12}$$

Multiplier = \_\_\_\_\_

$$\textcircled{6} \frac{12}{15} = \frac{4}{5}$$

Divisor = \_\_\_\_\_

$$\textcircled{7} \frac{3}{4} = \frac{18}{24}$$

Multiplier = \_\_\_\_\_

$$\textcircled{8} \frac{25}{50} = \frac{5}{10}$$

Divisor = \_\_\_\_\_

$$\textcircled{9} \frac{1}{4} = \frac{7}{28}$$

Multiplier = \_\_\_\_\_

$$\textcircled{10} \frac{11}{22} = \frac{1}{2}$$

Divisor = \_\_\_\_\_

Complete the chain of equivalent fractions.

$$\textcircled{11} \frac{2}{5} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

$$\textcircled{12} \frac{5}{9} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

Solve.

- $\textcircled{13}$  **Stretch Your Thinking** Harry ate  $\frac{4}{8}$  of a large pizza. Aidan ate  $\frac{1}{2}$  of a small pizza. Harry said that since  $\frac{4}{8}$  is equivalent to  $\frac{1}{2}$ , he and Aidan ate the same amount of pizza. Is he correct? Explain.

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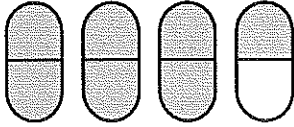
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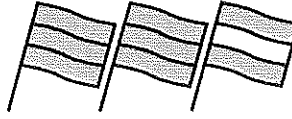
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Name the mixed number shown by the shaded parts.



1 \_\_\_\_\_



2 \_\_\_\_\_



3 \_\_\_\_\_

Write the mixed number as a fraction.

4  $2\frac{1}{3} =$  \_\_\_\_\_

5  $4\frac{2}{5} =$  \_\_\_\_\_

6  $3\frac{3}{4} =$  \_\_\_\_\_

7  $1\frac{5}{8} =$  \_\_\_\_\_

Write the fraction as a mixed number.

8  $\frac{7}{6} =$  \_\_\_\_\_

9  $\frac{8}{3} =$  \_\_\_\_\_

10  $\frac{9}{2} =$  \_\_\_\_\_

11  $\frac{10}{7} =$  \_\_\_\_\_

Complete. Give the answer as a mixed number.

12  $\frac{3}{5} + \frac{4}{5} =$  \_\_\_\_\_

13  $\frac{6}{4} + \frac{3}{4} =$  \_\_\_\_\_

14  $\frac{2}{9} + \frac{8}{9} =$  \_\_\_\_\_

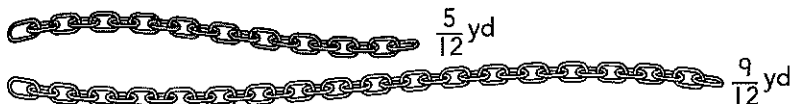
15  $7 + \frac{2}{3} =$  \_\_\_\_\_

Solve.

Show your work.

- 16 Alicia walked  $\frac{7}{8}$  mile on Saturday and  $\frac{6}{8}$  mile on Sunday. How far did she walk over the weekend? Give the answer as a mixed number.
- \_\_\_\_\_

- 17 The dark chain is  $\frac{5}{12}$  yard long. The light one is  $\frac{9}{12}$  yard long. How long will they be if they are joined? Give the answer as a mixed number.
- \_\_\_\_\_



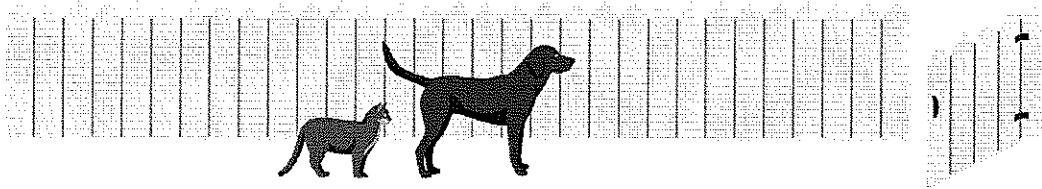
Solve.

- 1 The dog has gone  $\frac{5}{8}$  of the way across the yard. How much farther does it have to go to reach the gate?

\_\_\_\_\_

- 2 The cat has gone  $\frac{7}{16}$  of the way across the yard. How much farther does it have to go to reach the gate?

\_\_\_\_\_



- 3 I cleaned  $\frac{6}{9}$  of my room, and my friend cleaned  $\frac{2}{9}$  of my room. How much of my room do we still have to clean?

\_\_\_\_\_

- 4 Mrs. Spencer's class is signing up to play sports.  $\frac{8}{26}$  of the students want to play soccer and  $\frac{12}{26}$  want to play basketball. The rest of the students want to play baseball. What fraction of the students wants to play baseball?

\_\_\_\_\_

Compare.

5  $\frac{2}{6} \bigcirc \frac{1}{6}$

6  $\frac{4}{9} \bigcirc \frac{4}{10}$

7  $\frac{7}{12} \bigcirc \frac{13}{24}$

8  $\frac{3}{5} \bigcirc \frac{1}{3}$

9  $\frac{4}{6} \bigcirc \frac{6}{9}$

10  $\frac{4}{5} \bigcirc \frac{5}{6}$

11  $\frac{7}{12} \bigcirc \frac{3}{4}$

12  $\frac{3}{5} \bigcirc \frac{4}{9}$

13  $\frac{7}{9} \bigcirc \frac{7}{8}$

- 14 **Stretch Your Thinking** Find two fractions that are between  $\frac{3}{5}$  and  $\frac{4}{5}$ .

\_\_\_\_\_

Add or subtract.

①  $\frac{3}{5} + \frac{4}{5}$

②  $\frac{6}{4} + \frac{3}{4}$

③  $4\frac{2}{9} + 2\frac{7}{9}$

④  $1\frac{7}{8} + 3\frac{3}{8}$

⑤  $1\frac{7}{9} - \frac{4}{9}$

⑥  $4\frac{6}{7} - 2\frac{5}{7}$

⑦  $6\frac{4}{5} - 3\frac{2}{5}$

⑧  $25\frac{5}{8} - 10\frac{1}{8}$

⑨  $4\frac{1}{2} + 5\frac{1}{2}$

⑩  $3\frac{1}{7} + 2\frac{1}{7}$

⑪  $1\frac{5}{7} + 1\frac{3}{7}$

⑫  $50\frac{1}{3} + 50\frac{1}{3}$

⑬  $2 - \frac{1}{3}$

⑭  $5\frac{3}{8} - 2\frac{7}{8}$

⑮  $2\frac{1}{6} - 1\frac{5}{6}$

Solve.

*Show your work.*

- ⑯ I made a clay snake  $9\frac{5}{8}$  inches long, but a section  $1\frac{7}{8}$  inches long broke off. How long is the snake now?

\_\_\_\_\_

- ⑰ A group of campers hiked for  $5\frac{3}{4}$  hours today and  $6\frac{3}{4}$  hours yesterday. How many hours did they hike in all?

\_\_\_\_\_

- ⑱ Deacon had  $12\frac{1}{3}$  ounces of juice, but he drank  $3\frac{2}{3}$  ounces. How much juice is left?

\_\_\_\_\_

Complete to form equivalent fractions.

$$1 \quad \frac{1}{2} = \frac{4}{\square}$$

$$2 \quad \frac{12}{\square} = \frac{4}{5}$$

$$3 \quad \frac{6}{7} = \frac{\square}{28}$$

$$4 \quad \frac{4}{\square} = \frac{\square}{9}$$

$$5 \quad \frac{25}{100} = \frac{\square}{\square}$$

$$6 \quad \frac{\square}{8} = \frac{3}{\square}$$

Compare.

$$7 \quad \frac{3}{10} \bigcirc \frac{3}{8}$$

$$8 \quad \frac{4}{5} \bigcirc \frac{5}{6}$$

$$9 \quad \frac{5}{7} \bigcirc \frac{2}{3}$$

$$10 \quad \frac{5}{6} \bigcirc \frac{19}{24}$$

$$11 \quad \frac{4}{15} \bigcirc \frac{3}{10}$$

$$12 \quad \frac{1}{49} \bigcirc \frac{1}{50}$$

Solve.

*Show your work.*

- 13 Rosa got 5 out of 7 answers correct on her science quiz. Her older sister Ana got 4 answers out of 6 correct on her science quiz. Which sister answered a greater fraction of the questions correctly?

\_\_\_\_\_

- 14 The number 85% is equivalent to the fraction  $\frac{85}{100}$ . Pablo spelled 21 out of 25 words correctly on his spelling test. Is this more or less than 85% of the words?

\_\_\_\_\_

- 15 **Stretch Your Thinking** Marla ate  $\frac{3}{8}$  of a small pepperoni pizza and  $\frac{2}{8}$  of a small cheese pizza. Damien ate  $\frac{3}{12}$  of a small veggie pizza and  $\frac{5}{12}$  of a small mushroom pizza. Who ate a greater fraction of a whole pizza?

\_\_\_\_\_