

Homework

Write each fraction as a sum of unit fractions.

1. $\frac{2}{4} =$ _____

2. $\frac{5}{8} =$ _____

3. $\frac{2}{6} =$ _____

4. $\frac{7}{8} =$ _____

5. $\frac{4}{12} =$ _____

6. $\frac{6}{12} =$ _____

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

8. $\frac{4}{6} =$ _____

Name the fraction for each sum of unit fractions.

9. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} =$ _____

10. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$ _____

11. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$ _____

12. $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} =$ _____

13. $\frac{1}{12} + \frac{1}{12} =$ _____

14. $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$ _____

15. $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} =$ _____

16. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$ _____

Write three things you learned today about fractions.

Remembering

Solve using any method and show your work.

Check your work with estimation.

1. 2×87

2. 35×64

3.
$$\begin{array}{r} 336 \\ \times 8 \\ \hline \end{array}$$

Solve using any method.

4. $5 \overline{)481}$

5. $4 \overline{)2,575}$

6. $7 \overline{)3,855}$

Simplify each expression.

7. $(7 - 3) \cdot 8 =$ _____

8. $(6 \cdot 3) \div (11 - 9) =$ _____

9. $9t - 3t =$ _____

10. $(12n - n) + 5n =$ _____

11. Stretch Your Thinking Kia has a long piece of ribbon.

She cuts the ribbon in half then cuts each of those halves in half again. Draw the cut ribbon. Kia uses 3 of the cut pieces for wrapping bouquets of flowers. Write a sum of unit fractions and the total to show the amount of the ribbon she has used. What fraction represents the amount she has left over?

Homework

Name the fraction of the shape that is shaded and the fraction of the shape that is not shaded. Then, write an equation that shows how the two fractions make one whole.

1.

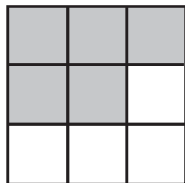


shaded: _____

unshaded: _____

equation: _____

2.

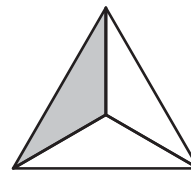


shaded: _____

unshaded: _____

equation: _____

3.



shaded: _____

unshaded: _____

equation: _____

Write the fraction that will complete each equation.

4. $1 = \frac{3}{3} = \frac{1}{3} +$ _____

5. $1 = \frac{8}{8} = \frac{3}{8} +$ _____

6. $1 = \frac{4}{4} = \frac{2}{4} +$ _____

7. $1 = \frac{10}{10} = \frac{7}{10} +$ _____

8. $1 = \frac{6}{6} = \frac{5}{6} +$ _____

9. $1 = \frac{9}{9} = \frac{8}{9} +$ _____

10. $1 = \frac{7}{7} = \frac{4}{7} +$ _____

11. $1 = \frac{12}{12} = \frac{9}{12} +$ _____

Solve.

Show your work.

12. Kim drank $\frac{1}{3}$ of a carton of milk. Joan drank $\frac{1}{4}$ of a carton of milk. Who drank more milk?

13. Maria read $\frac{1}{8}$ of a story. Darren read $\frac{1}{7}$ of the same story. Who read less of the story?

Remembering

Write = or \neq to make each statement true.

1. $25 + 25 \bigcirc 50$

2. $17 + 3 \bigcirc 30 - 10$

3. $9 + 8 \bigcirc 8 + 9$

4. $31 \bigcirc 23 + 9$

5. $3 + 1 + 12 \bigcirc 15$

6. $40 - 22 \bigcirc 18$

Solve each equation.

7. $8 \div b = 2$

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

8. $j \div 6 = 7$

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

9. $k = 5 \times 3$

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

10. $q \times 10 = 90$

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

11. $12 \times r = 36$

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

12. $a = 7 \times 8$

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

Write each fraction as a sum of unit fractions.

13. $\frac{4}{6} = \underline{\hspace{4cm}}$

14. $\frac{6}{8} = \underline{\hspace{4cm}}$

15. **Stretch Your Thinking** Margaret and June both made a pumpkin pie of the same size. Each cut her pie into equal pieces. Margaret's whole pie can be represented by the fraction $\frac{8}{8}$. June's whole pie can be represented by the fraction $\frac{6}{6}$. What is different about the two pies? If Margaret and June each eat 1 piece of their own pie, who will eat more? Explain how you know.

Homework**Solve.**

1. $\frac{4}{8} + \frac{2}{8} =$ _____

2. $\frac{3}{11} + \frac{6}{11} =$ _____

3. $\frac{3}{4} - \frac{2}{4} =$ _____

4. $\frac{3}{5} + \frac{4}{5} =$ _____

5. $\frac{2}{6} + \frac{1}{6} =$ _____

6. $\frac{6}{7} - \frac{2}{7} =$ _____

7. $\frac{5}{12} + \frac{4}{12} =$ _____

8. $\frac{9}{10} - \frac{3}{10} =$ _____

9. $\frac{8}{9} - \frac{4}{9} =$ _____

Solve.*Show your work.*

10. Sue is driving to see her mom. The first day she traveled $\frac{2}{5}$ of the distance. The next day she traveled another $\frac{2}{5}$ of the distance. What fraction of the distance has she driven?
- _____

11. When Keshawn sharpens her pencil, she loses about $\frac{1}{12}$ of the length. One day, she sharpened her pencil 3 times. The next day she sharpened the same pencil 5 times. What fraction of the pencil did Keshawn sharpen away?
- _____

12. One day, a flower shop sold $\frac{7}{10}$ of its roses in the morning and $\frac{2}{10}$ of its roses in the afternoon. What fraction of its roses did the shop sell that day?
- _____

13. Bonnie's orange was cut into eighths. She ate $\frac{3}{8}$ of the orange and her friend ate $\frac{3}{8}$ of it. Did they eat the whole orange? Explain.
- _____

14. Write and solve a fraction word problem of your own.
- _____
- _____
- _____
- _____

Remembering

Solve the comparison problem.

1. There are 108 cars parked in front of a building. This is 4 times the number of cars that are parked in the back of the building. How many cars are parked in the back of the building?
- _____

Write a number sentence to answer each question.

2. How many millimeters are equal to 8 meters?
- _____
3. How many centimeters are equal to 35 kilometers?
- _____
4. How many meters are equal to 72 kilometers?
- _____

Name the fraction that will complete each equation.

5. $1 = \frac{6}{6} = \frac{4}{6} +$ _____

6. $1 = \frac{10}{10} = \frac{1}{10} +$ _____

7. $1 = \frac{3}{3} = \frac{2}{3} +$ _____

8. $1 = \frac{8}{8} = \frac{4}{8} +$ _____

9. **Stretch Your Thinking** Lilly started the morning with a glass of juice that was $\frac{4}{5}$ full. She drank $\frac{3}{5}$ of the glass, then partially refilled with another $\frac{2}{5}$ of a glass. At this point, how full is Lilly's glass with juice? Explain your answer.
- _____
- _____

Homework**Write the equivalent fraction.**

1. $6\frac{2}{5} =$ _____

2. $2\frac{3}{8} =$ _____

3. $4\frac{6}{7} =$ _____

4. $8\frac{1}{3} =$ _____

5. $3\frac{7}{10} =$ _____

6. $5\frac{5}{6} =$ _____

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

8. $1\frac{4}{9} =$ _____

Write the equivalent mixed number.

9. $\frac{50}{7} =$ _____

10. $\frac{16}{10} =$ _____

11. $\frac{23}{4} =$ _____

12. $\frac{50}{5} =$ _____

13. $\frac{21}{8} =$ _____

14. $\frac{11}{3} =$ _____

15. $\frac{60}{9} =$ _____

16. $\frac{23}{5} =$ _____

Solve.*Show your work.*

17. Castor brought $6\frac{3}{4}$ small carrot cakes to share with the 26 students in his class. Did Castor bring enough for each student to have $\frac{1}{4}$ of a cake? Explain your thinking.

18. Claire cut some apples into eighths. She and her friends ate all but 17 pieces. How many whole apples and parts of apples did she have left over? Tell how you know.

Remembering

Write and solve an equation to solve each problem.

Show your work.

Draw comparison bars when needed.

1. Brigitte fostered 14 dogs this year, which is 5 less than last year. How many dogs did Brigitte foster last year?

2. Rema has two jobs. In one year, she worked 276 hours at her first job. In the same year, she worked 3 times the number of hours at her second job. How many hours did Rema work that year at her second job?

Complete.

3. How many milliliters are equal to 21 L? _____

4. How many milligrams are equal to 9 g? _____

5. How many grams are equal to 400 kg? _____

Solve.

6. $\frac{3}{4} - \frac{1}{4} =$ _____

7. $\frac{2}{9} + \frac{3}{9} =$ _____

8. $\frac{7}{8} - \frac{1}{8} =$ _____

9. **Stretch Your Thinking** Harrison says that to convert a mixed number to a fraction greater than 1, he thinks of it this way: $4\frac{2}{5} = \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{5}{5} + \frac{2}{5} = \frac{22}{5}$. Does his strategy work? Explain.

Homework**Add.**

$$\begin{array}{r} 1. \quad 3\frac{2}{6} \\ + 6\frac{3}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 8\frac{5}{10} \\ + 9\frac{6}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 7\frac{3}{4} \\ + 4\frac{2}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 1\frac{5}{9} \\ + 5\frac{7}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 3\frac{2}{5} \\ + 3\frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 1\frac{2}{8} \\ + 2\frac{5}{8} \\ \hline \end{array}$$

Subtract.

$$\begin{array}{r} 7. \quad 7\frac{2}{3} \\ - 3\frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 8\frac{2}{7} \\ - 5\frac{5}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 6\frac{1}{4} \\ - 2\frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 9\frac{1}{8} \\ - 4\frac{5}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 9\frac{4}{6} \\ - 4\frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 3\frac{1}{5} \\ - 2\frac{3}{5} \\ \hline \end{array}$$

Add or subtract.

$$13. \quad \frac{1}{4} + \frac{7}{4} = \underline{\hspace{2cm}}$$

$$14. \quad \frac{3}{8} + \frac{6}{8} = \underline{\hspace{2cm}}$$

$$15. \quad \frac{9}{6} - \frac{8}{6} = \underline{\hspace{2cm}}$$

$$16. \quad \frac{5}{9} + \frac{6}{9} = \underline{\hspace{2cm}}$$

$$17. \quad \frac{9}{2} - \frac{6}{2} = \underline{\hspace{2cm}}$$

$$18. \quad \frac{5}{10} - \frac{2}{10} = \underline{\hspace{2cm}}$$

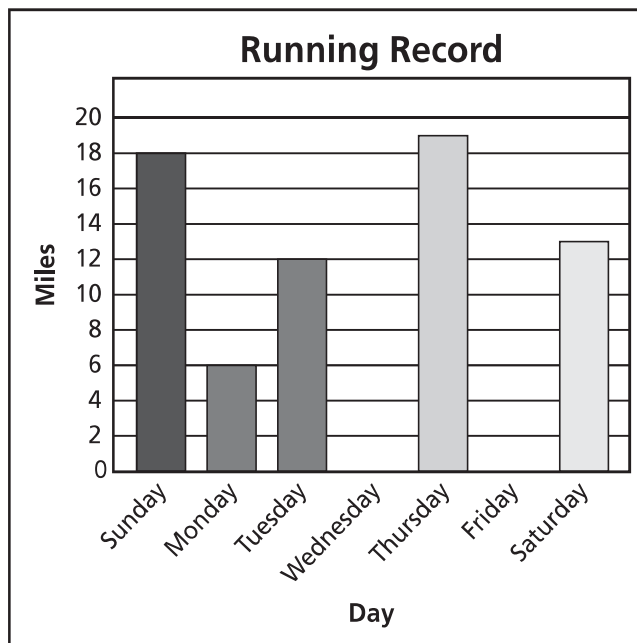
$$19. \quad \frac{2}{5} + \frac{4}{5} = \underline{\hspace{2cm}}$$

$$20. \quad \frac{8}{7} - \frac{3}{7} = \underline{\hspace{2cm}}$$

$$21. \quad \frac{7}{3} - \frac{2}{3} = \underline{\hspace{2cm}}$$

Remembering

The graph shows the number of miles Matt ran during a week of training for a marathon. Use the graph for Exercises 1–2.



1. On which day did Jason run 3 times the number of miles as he ran on Monday?

2. Write an addition equation and a subtraction equation that compares the number of miles Matt ran on Thursday (x) to the number of miles Jason ran on Tuesday (y).

Convert each measurement.

3. 4 min = _____ sec

4. 12 hrs = _____ min

5. 5 days = _____ hrs

6. 2 days = _____ min

Write the equivalent mixed number.

7. $\frac{9}{4} =$ _____

8. $\frac{12}{3} =$ _____

9. $\frac{63}{10} =$ _____

10. $\frac{11}{2} =$ _____

11. $\frac{14}{4} =$ _____

12. $\frac{15}{6} =$ _____

13. **Stretch Your Thinking** Garrett picked $12\frac{7}{8}$ pounds of peaches. Elise picked $13\frac{3}{8}$ pounds of peaches. Who picked more peaches? How much more? Explain.

Homework

Write each mixed number as a fraction.

1. $6\frac{5}{8} =$ _____

2. $2\frac{1}{4} =$ _____

3. $8\frac{3}{10} =$ _____

4. $4\frac{2}{6} =$ _____

Write each fraction as a mixed number.

5. $\frac{26}{3} =$ _____

6. $\frac{47}{7} =$ _____

7. $\frac{59}{9} =$ _____

8. $\frac{44}{5} =$ _____

Add or subtract.

9. $\frac{2}{3} + \frac{2}{3} =$ _____

10. $\frac{5}{7} - \frac{3}{7} =$ _____

11. $1\frac{3}{9} + \frac{7}{9} =$ _____

12. $\frac{3}{4} + 3\frac{3}{4} =$ _____

13. $2\frac{4}{15} - \frac{10}{15} =$ _____

14. $\frac{15}{20} - \frac{6}{20} =$ _____

15. $3\frac{3}{5} - 3\frac{1}{5} =$ _____

16. $1\frac{1}{6} + 2\frac{2}{6} =$ _____

17. $2\frac{7}{8} - 1\frac{2}{8} =$ _____

Solve.

Show your work.

18. Rashid made a loaf of bread that called for $3\frac{1}{3}$ cups of flour. He combined white flour and whole wheat flour. If he used $1\frac{2}{3}$ cups of white flour, how much whole wheat flour did he use?
- _____

19. Manuela spent $1\frac{3}{4}$ hours writing her book report. Katy spent $\frac{3}{4}$ hour more time on her book report than Manuela spent. How much time did Katy spend writing her report?
- _____

Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 23,546 \\ + \quad 3,198 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 50,427 \\ - \quad 27,152 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 850,000 \\ - \quad 541,086 \\ \hline \end{array}$$

Use an equation to solve.

Show your work.

4. Each of Caroline's 2 older cats gets 7 ounces of food each day. Her younger cat gets 9 ounces of food each day. How much food does Caroline feed her cats altogether each day?
- _____

5. Chad shares his 84 toy cars equally among his 3 friends and himself. Then he donates 15 cars to a used toy collection. How many cars does Chad have left?
- _____

Add.

$$\begin{array}{r} 6. \quad 3\frac{4}{9} \\ + \quad 5\frac{2}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 7\frac{1}{5} \\ + \quad 2\frac{2}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 9\frac{7}{10} \\ + \quad 8\frac{4}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 5\frac{2}{7} \\ + \quad 2\frac{6}{7} \\ \hline \end{array}$$

10. **Stretch Your Thinking** Chris ordered pizza for his family from a company that cuts its pizzas into 8 slices each. The fraction of a pizza eaten by each family member is shown in the table at the right. If they had less than 1 whole pizza left over, how many pizzas did they order? What fraction of a pizza was left over? Show your work.
- _____
- _____
- _____

Family member	Fraction of pizza eaten
Chris	$\frac{3}{8}$
Stacy	$\frac{2}{8}$
Rylan	$\frac{4}{8}$
Alec	$\frac{5}{8}$
Kelli	$\frac{3}{8}$

Homework**Multiply.**

1. $3 \times \frac{1}{4} =$ _____

2. $5 \times \frac{1}{3} =$ _____

3. $4 \times \frac{1}{6} =$ _____

4. $7 \times \frac{1}{7} =$ _____

5. $2 \times \frac{1}{8} =$ _____

6. $3 \times \frac{1}{10} =$ _____

7. $2 \times \frac{3}{4} =$ _____

8. $12 \times \frac{2}{3} =$ _____

9. $12 \times \frac{5}{6} =$ _____

10. $3 \times \frac{2}{7} =$ _____

11. $24 \times \frac{5}{8} =$ _____

12. $8 \times \frac{3}{10} =$ _____

13. $20 \times \frac{3}{5} =$ _____

14. $9 \times \frac{5}{9} =$ _____

15. $10 \times \frac{7}{12} =$ _____

Solve.*Show your work.*

16. Manuel eats $\frac{1}{8}$ of a melon for a snack each day. How much melon does he eat in five days?
- _____

17. Shannen collects paper for recycling. She collects $\frac{1}{3}$ pound of paper each week. How much paper will she collect in 4 weeks?
- _____

18. Aisha is unpacking boxes. It takes $\frac{3}{4}$ hour to unpack each box. How long will it take her to unpack 6 boxes?
- _____

19. Mrs. Suarez cut a pizza into 8 equal slices. Each person in her family ate 2 slices. If there are 3 people in her family, what fraction of the pizza did they eat altogether?
- _____

20. Hailey is knitting a scarf. Each half hour, she adds $\frac{3}{7}$ inch to the scarf's length. How much length will she add to the scarf in 12 hours?
- _____

Remembering

Use an equation to solve.

Show your work.

1. Camille bought 2 pairs of pants for \$29 each and a shirt for \$18. She paid with \$80. How much did she get in change?

2. On a weekend road trip, the Jensen family drove 210 miles on highways, where their car gets 35 miles for each gallon of gasoline, and 54 miles on city streets, where their car gets 18 miles for each gallon. How many gallons of gas did they use?

Complete the tables.

3.

Yards	Feet
2	
5	
8	
10	

4.

Feet	Inches
3	
4	
9	
12	

Add or subtract.

5. $\frac{9}{10} - \frac{3}{10} =$ _____

6. $\frac{2}{5} + \frac{4}{5} =$ _____

7. $2\frac{1}{8} + 5\frac{3}{8} =$ _____

8. $8\frac{6}{7} - 8\frac{2}{7} =$ _____

9. $4\frac{3}{6} + 1\frac{5}{6} =$ _____

10. $7\frac{1}{4} - 4\frac{3}{4} =$ _____

11. **Stretch Your Thinking** A worm moves forward $\frac{3}{8}$ inch every 5 minutes for 1 hour 25 minutes. How far does the worm move in this time? Explain.

Homework

Draw a model for each problem. Then solve.

1. $4 \cdot \frac{1}{5} =$ _____

2. $7 \cdot \frac{1}{3} =$ _____

3. $2 \cdot \frac{3}{8} =$ _____

4. $5 \cdot \frac{3}{4} =$ _____

Multiply.

5. $12 \cdot \frac{5}{6} =$ _____

6. $9 \cdot \frac{1}{2} =$ _____

7. $25 \cdot \frac{3}{7} =$ _____

8. $12 \cdot \frac{4}{5} =$ _____

9. $5 \cdot \frac{2}{12} =$ _____

10. $9 \cdot \frac{2}{3} =$ _____

Write an equation. Then solve.

Show your work.

11. Cal's shoe is $\frac{3}{4}$ foot long. He used his shoe to measure his bedroom and found that it was 15 shoes long. What is the length of Cal's room in feet?

12. The cafeteria at a summer camp gives each camper $\frac{2}{3}$ cup of juice for breakfast. This morning, 50 campers had juice for breakfast. How much juice did the cafeteria serve in all?

Remembering

Solve each problem.

1. $24 \div 8 + 9 = h$

2. $(14 \div 2) - (3 \times 2) = l$

3. $20 - (5 \times 4) = p$

4. $(2 \times 9) + 9 = g$

5. $(3 + 7) \times (2 + 4) = m$

6. $(9 \div 3) + (5 - 4) = t$

Solve.

Show your work.

7. A baby weighs 7 pounds 2 ounces at birth. How many ounces does the baby weigh?

8. Jack bought 2 quarts of motor oil. His car took 1 quart and another half quart. How many cups of oil does he have left?

Multiply.

9. $6 \times \frac{1}{7} =$ _____

10. $5 \times \frac{3}{8} =$ _____

11. $2 \times \frac{9}{10} =$ _____

12. $8 \times \frac{3}{4} =$ _____

13. $3 \times \frac{1}{3} =$ _____

14. $15 \times \frac{3}{11} =$ _____

15. **Stretch Your Thinking** Write a word problem using the whole number 4 and the fraction $\frac{3}{8}$. Then solve your problem.

Homework**Add or subtract.**

$$\begin{array}{r} 1. \quad 2\frac{2}{3} \\ + 4\frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 9\frac{7}{9} \\ - 4\frac{5}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 5\frac{4}{5} \\ + 7\frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 8 \\ - 1\frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 18\frac{5}{8} \\ + 12\frac{7}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 10\frac{1}{4} \\ - 3\frac{3}{4} \\ \hline \end{array}$$

Multiply. Write your answer as a mixed number or a whole number, when possible.

7. $5 \cdot \frac{1}{5} =$ _____

8. $5 \cdot \frac{4}{7} =$ _____

9. $20 \cdot \frac{3}{10} =$ _____

10. $8 \cdot \frac{1}{6} =$ _____

11. $9 \cdot \frac{7}{12} =$ _____

12. $2 \cdot \frac{4}{9} =$ _____

Write an equation. Then solve.*Show your work.*

13. At the science-club picnic $\frac{2}{3}$ cup of potato salad will be served to each student. If 20 students attend the picnic, how much potato salad will be needed?

14. Skye spent $4\frac{2}{6}$ hours reading over the weekend. If she read $1\frac{5}{6}$ hours on Saturday, how long did she read on Sunday?

Remembering

Tell whether 3 is a factor of each number. Write *yes* or *no*.

1. 12

2. 14

3. 38

4. 51

Tell whether each number is a multiple of 6. Write *yes* or *no*.

5. 46

6. 54

7. 21

8. 30

Find the area and perimeter for rectangles with the lengths and widths shown.

9. $l = 7$ units

$w = 8$ units

$A =$ _____

$P =$ _____

10. $l = 2$ units

$w = 4$ units

$A =$ _____

$P =$ _____

11. $l = 7$ units

$w = 5$ units

$A =$ _____

$P =$ _____

Write an equation. Then solve.

Show your work.

12. Mattie walks $\frac{3}{4}$ mile to school and then back each day. How many miles does she walk to and from school in 5 days?

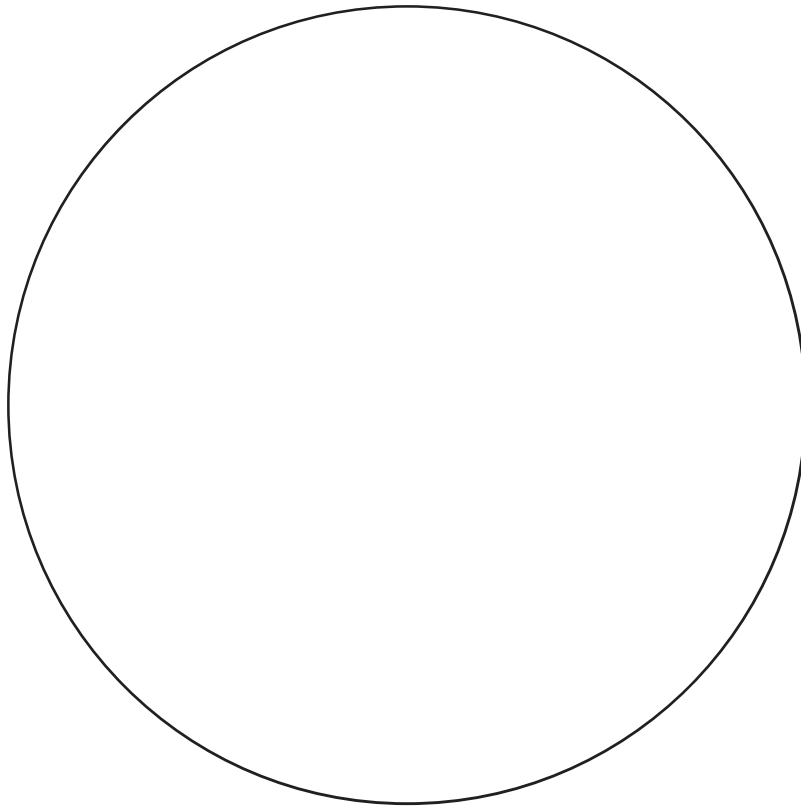
13. A certain postage stamp is 2 inches long and $\frac{5}{6}$ inches wide. What is the area of the stamp?

14. **Stretch Your Thinking** For a woodworking project, Tyler has cut 14 boards that are each $\frac{3}{4}$ yard and one board that is $2\frac{1}{4}$ yards. What is the total length of the boards Tyler has cut? Show your work.

Homework

A pizza garden is a smaller version of a pizza farm. You can make a pizza garden at your home or in your community.

1. Use the circle below to draw a vegetarian pizza garden with 8 wedges. In each wedge, show one of the following vegetarian ingredients: wheat, fruit, vegetables, Italian herbs, and dairy cows. Use each type of ingredient at least once.



2. What fraction of your pizza garden is made up of wheat or fruit?

3. What fraction of your pizza garden is *not* made up of vegetables?

Remembering

Use the rule to find the next five terms in the pattern.

1. 7, 14, 28, 56, ...

Rule: multiply by 2

2. 10, 18, 26, 34, ...

Rule: add 8

Use the rule to find the first ten terms in the pattern.

3. First term: 3

Rule: multiply by 2

Solve.

4. A rectangular vegetable garden is 10 yards by 7 yards.
What is the perimeter of the garden in feet?

Multiply. Change fractions greater than 1 to mixed numbers or whole numbers.

5. $7 \cdot \frac{3}{5} =$ _____

6. $12 \cdot \frac{1}{2} =$ _____

7. $9 \cdot \frac{3}{10} =$ _____

8. **Stretch Your Thinking** The table shows the amount of snowfall, in inches, during the winter months last year and this year. How much would it have to snow in February this year for the total snowfall this winter to be the same as last winter? Show your work.

Last Year			This Year		
Dec.	Jan.	Feb.	Dec.	Jan.	Feb.
$12\frac{7}{8}$	$17\frac{1}{8}$	$26\frac{3}{8}$	$35\frac{5}{8}$	$11\frac{1}{8}$?

Homework

Write $>$ or $<$ to make each statement true.

1. $\frac{1}{5}$ ○ $\frac{1}{4}$

2. $\frac{6}{10}$ ○ $\frac{5}{10}$

3. $\frac{4}{10}$ ○ $\frac{4}{12}$

4. $\frac{3}{5}$ ○ $\frac{4}{5}$

5. $\frac{3}{6}$ ○ $\frac{3}{8}$

6. $\frac{7}{100}$ ○ $\frac{8}{100}$

Solve. Explain your answers.

Show your work.

7. Juan took $\frac{2}{12}$ of the fruit salad and Harry took $\frac{3}{12}$ of the same salad. Who took more of the salad?

8. Kim drank $\frac{1}{3}$ of a carton of milk. Joan drank $\frac{1}{4}$ of a carton. Who drank more?

9. Maria read $\frac{3}{8}$ of a story. Darren read $\frac{3}{6}$ of the same story. Who read more of the story?

10. Write 2 things you learned today about comparing fractions.

11. Write and solve a fraction word problem of your own.

Remembering

Divide.

1. $6 \overline{)273}$

2. $2 \overline{)1,935}$

3. $7 \overline{)812}$

Write = or \neq to make each statement true.

4. $16 - 4 \bigcirc 2$

5. $20 + 8 \bigcirc 30 - 2$

6. $9 - 4 \bigcirc 12$

7. $48 \bigcirc 24 + 24$

8. $50 + 3 + 8 \bigcirc 71$

9. $13 + 15 \bigcirc 15 + 13$

Solve each equation.

10. $18 \div s = 9$

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

11. $m = 8 \times 4$

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

12. $p \div 10 = 7$

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

13. $t \times 12 = 60$

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

14. $3 \times y = 18$

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

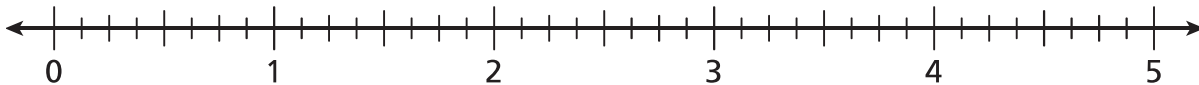
15. $j = 42 \div 6$

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

16. Stretch Your Thinking Ellen, Fern, and Kyle are all drinking milk from the same size cartons in the cafeteria. Ellen's carton is $\frac{3}{7}$ full. Fern's carton is $\frac{3}{10}$ full. Kevin's carton is $\frac{3}{4}$ full. Who has the least milk left in their carton? Explain how you know.

Homework

1. Use the number line to compare the fractions or mixed numbers. Write $>$ or $<$ to make the statement true.



a. $\frac{3}{4} \bigcirc \frac{5}{8}$

b. $1\frac{1}{4} \bigcirc \frac{3}{2}$

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

d. $\frac{7}{2} \bigcirc \frac{17}{8}$

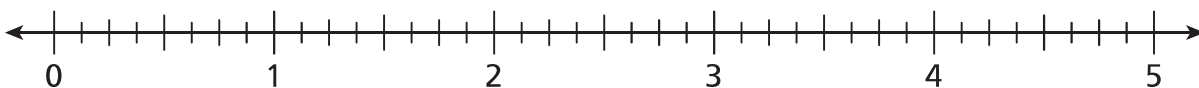
e. $4\frac{2}{4} \bigcirc 4\frac{5}{8}$

f. $4\frac{1}{2} \bigcirc \frac{33}{8}$

g. $1\frac{3}{4} \bigcirc 1\frac{7}{8}$

h. $1\frac{1}{2} \bigcirc 1\frac{1}{8}$

2. Mark and label the letter of each fraction or mixed number on the number line.



a. $\frac{3}{8}$

b. $\frac{3}{4}$

c. $1\frac{1}{2}$

d. $2\frac{1}{8}$

e. $2\frac{7}{8}$

f. $3\frac{1}{4}$

g. $3\frac{5}{8}$

h. $4\frac{2}{4}$

i. $4\frac{6}{8}$

j. $4\frac{7}{8}$

The list below shows the amount of fruit purchased from the market.

Fruit Purchases (lb = pounds)

apples $2\frac{1}{8}$ lb	bananas $2\frac{3}{8}$ lb
grapes $2\frac{2}{3}$ lb	oranges $3\frac{1}{10}$ lb

3. Decide if each weight is closer to 2 pounds, $2\frac{1}{2}$ pounds, or 3 pounds. Write *closer to 2 pounds*, *closer to $2\frac{1}{2}$ pounds*, or *closer to 3 pounds*.

a. apples _____

b. bananas _____

c. grapes _____

d. oranges _____

4. Which purchase had a greater weight?

a. apples or grapes _____

b. oranges or bananas _____

Remembering

Solve, using any method.

1. $8 \overline{)1,219}$

2. $3 \overline{)7,149}$

3. $4 \overline{)4,038}$

Solve each comparison problem.

4. Mateo read 2,382 pages in a book series over the summer. This is 3 times the number of pages as his younger brother read over the summer. How many pages did Mateo's brother read over the summer?

5. In Jen's town, there was 9 inches of snow in a year. In her cousin's town, there was 216 inches of snow in the same year. How many times the number of inches of snow was there in the cousin's town as in Jen's town?

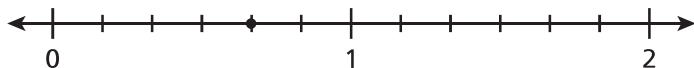
Write $<$ or $>$ to make each statement true.

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

7. $\frac{1}{8} \bigcirc \frac{3}{8}$

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

9. **Stretch Your Thinking** Dakota says the point on the number line shown here is $\frac{4}{5}$. His teacher says that he is reading the number line incorrectly. What is Dakota's error? What is the correct fraction?



Homework

1. Draw a small square, a medium square, and a large square.
Shade $\frac{1}{6}$ of each.
2. Draw a small circle, a medium circle, and a large circle.
Shade $\frac{3}{4}$ of each.
3. Draw a short rectangle, a medium rectangle, and a long rectangle. Shade $\frac{3}{5}$ of each.
4. Look at the different size shapes you shaded in Problems 1–3. Describe what they show about fractions of different wholes.

Solve.*Show your work.*

5. Kris ate $\frac{3}{8}$ of a pizza and Kim ate $\frac{4}{8}$ of the same pizza. Did they eat the whole pizza? Explain.

6. Amena ate $\frac{1}{2}$ of a sandwich. Lavonne ate $\frac{1}{2}$ of a different sandwich. Amena said they ate the same amount. Lavonne said Amena ate more. Could Lavonne be correct? Explain your thinking.

Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 8,159 \\ + 2,713 \\ \hline \end{array}$$

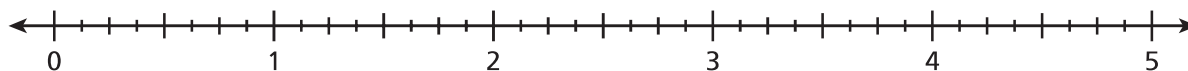
$$\begin{array}{r} 2. \quad 54,992 \\ + 8,317 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 625,000 \\ - 139,256 \\ \hline \end{array}$$

Use an equation to solve.

4. Chad harvested 39 potatoes from his garden. He kept 11 for himself and shared the remaining potatoes evenly among his 4 neighbors. How many potatoes did each neighbor get?
- _____

5. Mark and label the point for each fraction or mixed number with its letter.



- a. $3\frac{1}{8}$ b. $1\frac{2}{4}$ c. $\frac{3}{4}$ d. $4\frac{7}{8}$ e. $2\frac{1}{8}$
- f. $\frac{5}{8}$ g. $2\frac{1}{4}$ h. $1\frac{3}{8}$ i. $3\frac{6}{8}$ j. $4\frac{1}{2}$

6. **Stretch Your Thinking** Raylene made a bracelet with 28 beads. She also made a necklace with twice the number of beads as the bracelet. If $\frac{1}{2}$ of the beads on the bracelet are green and $\frac{1}{4}$ of the beads on the necklace are green, does the bracelet, the necklace, or neither have more green beads? Explain.
- _____
- _____
- _____
- _____

Homework

Use the fraction strips to show how each pair is equivalent.

1. $\frac{1}{3}$ and $\frac{2}{6}$



$$\frac{1}{3} = \frac{1 \times \boxed{}}{3 \times \boxed{}} = \frac{2}{6}$$

2. $\frac{3}{4}$ and $\frac{9}{12}$



$$\frac{3}{4} = \frac{3 \times \boxed{}}{4 \times \boxed{}} = \frac{9}{12}$$

3. $\frac{2}{5}$ and $\frac{4}{10}$



$$\frac{2}{5} = \frac{2 \times \boxed{}}{5 \times \boxed{}} = \frac{4}{10}$$

4. $\frac{2}{4}$ and $\frac{6}{12}$



$$\frac{2}{4} = \frac{2 \times \boxed{}}{4 \times \boxed{}} = \frac{6}{12}$$

Complete to show how the fractions are equivalent.

5. $\frac{5}{6}$ and $\frac{35}{42}$

$$\frac{5}{6} = \frac{5 \times \boxed{}}{6 \times \boxed{}} = \frac{35}{42}$$

6. $\frac{4}{10}$ and $\frac{40}{\boxed{}}$

$$\frac{4}{10} = \frac{4 \times 10}{10 \times \boxed{}} = \frac{\boxed{}}{\boxed{}}$$

Complete.

7. $\frac{4}{5} = \frac{4 \times \boxed{}}{5 \times \boxed{}} = \frac{\boxed{}}{45}$

8. $\frac{2}{5} = \frac{2 \times \boxed{}}{5 \times \boxed{}} = \frac{\boxed{}}{40}$

9. $\frac{3}{8} = \frac{3 \times \boxed{}}{8 \times \boxed{}} = \frac{18}{\boxed{}}$

Remembering

Solve. Then explain the meaning of the remainder.

1. Doris is putting together gift bags. She has 53 favors to divide evenly among gift bags for 7 guests. How many favors will each guest get?

Solve each problem.

2. $2 \times 9 + 5 = r$

3. $36 \div (20 - 8) = t$

Solve.

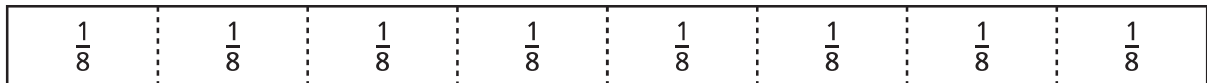
4. Mattie and Leah each bought an ice cream cone for the same price. Mattie said it cost her $\frac{2}{3}$ of her allowance. Leah said it cost her $\frac{1}{3}$ of her allowance. Who gets more allowance? Explain.

5. **Stretch Your Thinking** Omar cuts a pizza into 4 slices and takes 3 of the slices. He says that he would have the same amount of pizza if he cut the pizza into 8 slices and takes 6 of the slices. Paul says he can cut the pizza into 16 slices and take 12 slices to have the same amount. Who is correct? Explain.

Homework

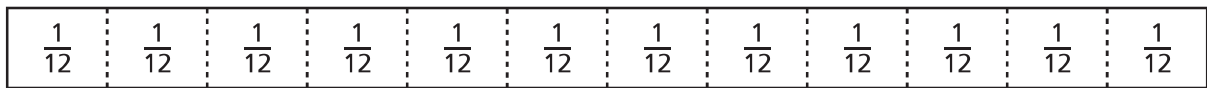
Shade the fraction bar to show the fraction of items sold.
Group the unit fractions to form an equivalent fraction in simplest form. Show your work numerically.

1. The manager of Fantasy Flowers made 8 bouquets of wild flowers. By noon, she sold 2 of the bouquets. What fraction did she sell?



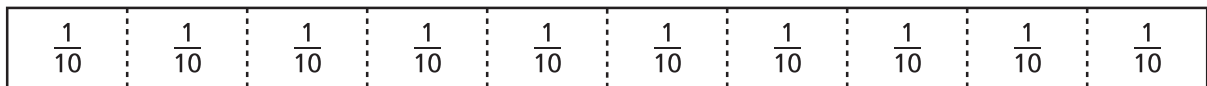
Group size: _____ Fraction of bouquets sold: $\frac{2 \div}{8 \div} =$ _____

2. A car dealer had 12 red cars on his lot at the beginning of the month. The first week he sold 8 of them. What fraction did he sell that week?



Group size: _____ Fraction of red cars sold: $\frac{8 \div}{12 \div} =$ _____

3. A music store received 10 copies of a new CD. They sold 6 of them in the first hour. What fraction did the store sell in the first hour?



Group size: _____ Fraction of CDs sold: $\frac{6 \div}{10 \div} =$ _____

Simplify each fraction.

4. $\frac{8 \div}{10 \div} =$ _____

5. $\frac{6 \div}{12 \div} =$ _____

6. $\frac{25 \div}{100 \div} =$ _____

7. $\frac{4 \div}{8 \div} =$ _____

Remembering

Tell whether 4 is a factor of each number. Write *yes* or *no*.

1. 12

2. 20

3. 10

4. 26

Tell whether each number is a multiple of 3. Write *yes* or *no*.

5. 15

6. 32

7. 27

8. 25

Name the fraction for each sum of unit fractions.

9. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} =$ _____

10. $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} =$ _____

11. $\frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} + \frac{1}{9} =$ _____

Complete.

12. $\frac{3}{5} = \frac{3 \times \boxed{}}{5 \times \boxed{}} = \frac{21}{\boxed{}}$

13. $\frac{2}{9} = \frac{2 \times \boxed{}}{9 \times \boxed{}} = \frac{\boxed{}}{36}$

14. $\frac{5}{6} = \frac{5 \times \boxed{}}{6 \times \boxed{}} = \frac{15}{\boxed{}}$

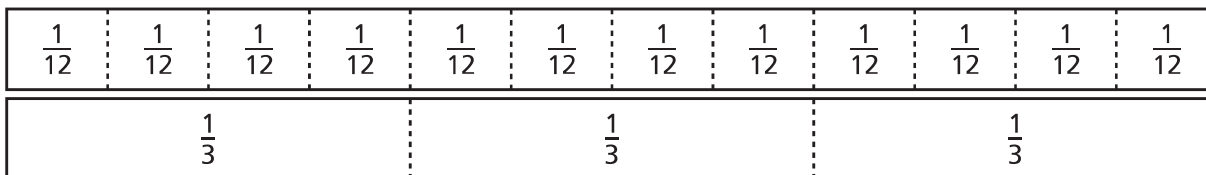
15. **Stretch Your Thinking** Explain two different ways to simplify $\frac{6}{12}$.

Homework

1. Use the fraction strips to compare the fractions

$$\frac{7}{12} \text{ and } \frac{2}{3}$$

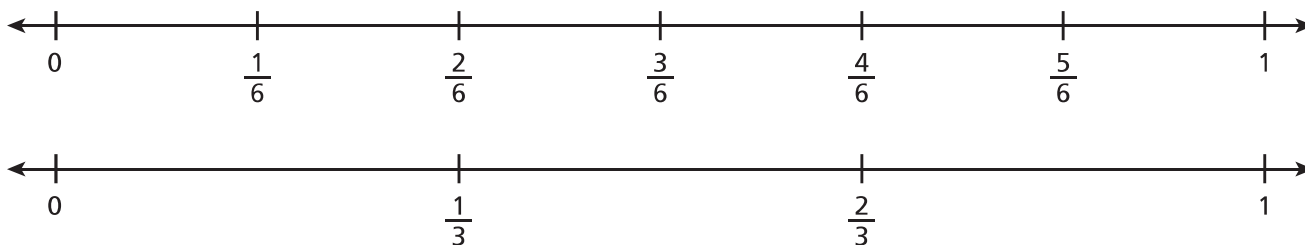
$$\frac{7}{12} \bigcirc \frac{2}{3}$$



2. Use the number lines to compare the fractions

$$\frac{5}{6} \text{ and } \frac{2}{3}$$

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



Compare. Write $>$, $<$, or $=$.

3. $\frac{1}{6} \bigcirc \frac{3}{5}$

4. $\frac{7}{8} \bigcirc \frac{3}{4}$

5. $\frac{1}{4} \bigcirc \frac{3}{10}$

6. $\frac{7}{10} \bigcirc \frac{5}{8}$

7. $\frac{2}{3} \bigcirc \frac{1}{2}$

8. $\frac{2}{5} \bigcirc \frac{7}{10}$

Remembering

Write a number sentence to answer each question.

1. How many meters are equal to 58 kilometers?

2. How many millimeters are equal to 17 centimeters?

Name the fraction that will complete each equation.

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

4. $1 = \frac{8}{8} = \frac{2}{8} + \underline{\hspace{2cm}}$

5. $1 = \frac{6}{6} = \frac{1}{6} + \underline{\hspace{2cm}}$

Simplify each fraction.

6. $\frac{12 \div \boxed{}}{15 \div \boxed{}} = \underline{\hspace{2cm}}$

7. $\frac{48 \div \boxed{}}{56 \div \boxed{}} = \underline{\hspace{2cm}}$

8. $\frac{28 \div \boxed{}}{36 \div \boxed{}} = \underline{\hspace{2cm}}$

9. $\frac{15 \div \boxed{}}{40 \div \boxed{}} = \underline{\hspace{2cm}}$

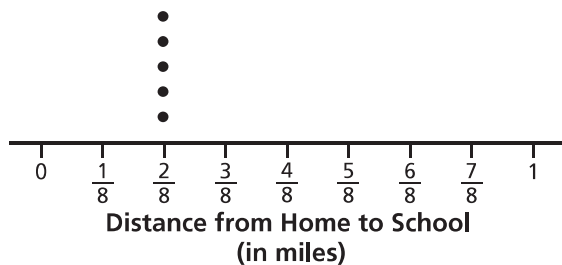
10. **Stretch Your Thinking** Kathleen, Penny, and Megan all order 12-ounce smoothies. After 5 minutes, Kathleen still has $\frac{3}{4}$ left, Penny has $\frac{5}{6}$ left, and Megan has $\frac{5}{8}$ left. Who has the least amount of smoothie in their cup? Who has the greatest? Explain.

Homework

Tyler asked his classmates the distance in miles from their home to the school. The distances they named are shown in the table.

Distance from Home to School (in miles)	Number of Students
$\frac{2}{8}$	5
$\frac{3}{8}$	3
$\frac{4}{8}$	4
$\frac{5}{8}$	5
$\frac{6}{8}$	3
$\frac{7}{8}$	7

1. Make a line plot of the data.



2. How many students did Tyler ask in all? Explain how you know.

3. Find the difference between the greatest distance and the least distance.

4. Layla lives the least distance from the school. Her friend Geneva lives $\frac{3}{8}$ mile from her. Geneva walked to Layla's house. Then the two girls walked to school together. How far did Geneva walk altogether?

Remembering

Complete.

- How many liters are equal to 39 kL? _____
- How many milligrams are equal to 4 cg? _____

Solve.

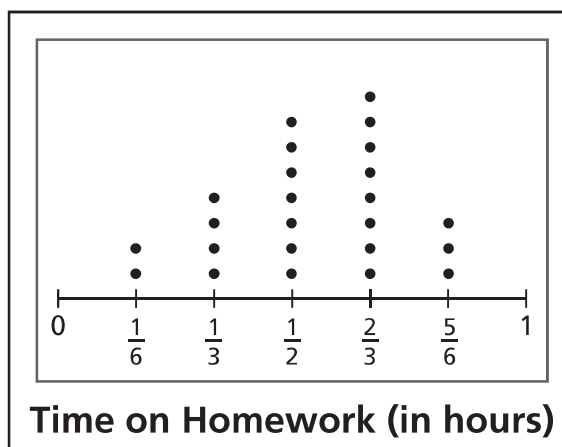
$$3. \frac{5}{9} + \frac{2}{9} = \underline{\hspace{2cm}} \qquad 4. \frac{4}{6} - \frac{1}{6} = \underline{\hspace{2cm}} \qquad 5. \frac{10}{11} - \frac{3}{11} = \underline{\hspace{2cm}}$$

Use a common denominator to compare the fractions.

Write $<$, $=$, or $>$ to make a true statement.

- $\frac{9}{10} \bigcirc \frac{2}{3}$
- $\frac{5}{8} \bigcirc \frac{3}{5}$
- $\frac{2}{3} \bigcirc \frac{5}{6}$
- $\frac{4}{14} \bigcirc \frac{2}{7}$
- $\frac{4}{5} \bigcirc \frac{4}{10}$
- $\frac{6}{8} \bigcirc \frac{5}{6}$

- 12. Stretch Your Thinking** Mr. Brady asked his students how long it took each of them to complete their homework from the previous night. He presented the results in the line plot shown. How many minutes did the greatest number of students take to do their homework? How many combined hours did those particular students spend on homework? Explain.



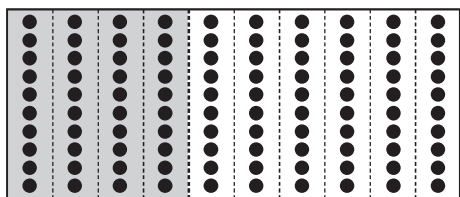
Homework

Use the visual to fill in each blank.

1. The shaded part of the whole represents:

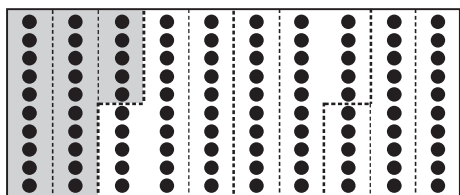
$$\frac{40}{100} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts and the decimal } \underline{\hspace{2cm}}.$$

$$\frac{4}{10} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts and the decimal } \underline{\hspace{2cm}}.$$



2. The shaded part of the whole represents:

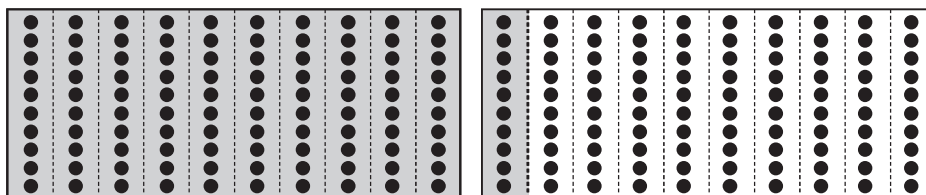
$$\frac{25}{100} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts, } \frac{1}{4} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts, and the decimal } \underline{\hspace{2cm}}.$$



3. The shaded part of the whole represents:

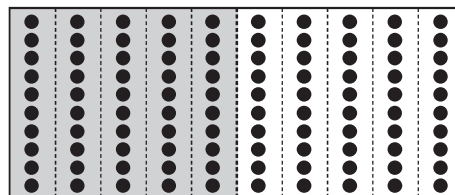
$$\frac{110}{100} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts, } \frac{11}{10} = \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts,}$$

$$1\frac{1}{10} = \underline{\hspace{2cm}} \text{ whole and } \underline{\hspace{2cm}} \text{ of } \underline{\hspace{2cm}} \text{ equal parts, and the decimal } \underline{\hspace{2cm}}.$$



Solve.

4. Juan shaded a part of the whole. Four fractions represent the shaded part of the whole. List each fraction. Explain how each fraction relates to the shaded part of the whole.



Remembering

Convert each measurement.

1. 12 hrs = _____ min

2. 2 months = _____ wks

3. 43 min = _____ sec

4. 6 days = _____ hrs

Write the equivalent mixed number.

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

6. $\frac{19}{4} =$ _____

7. $\frac{15}{2} =$ _____

8. $\frac{29}{3} =$ _____

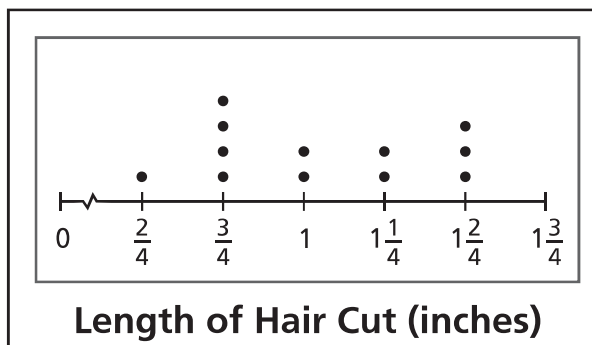
9. $\frac{49}{8} =$ _____

10. $\frac{37}{6} =$ _____

The line plot shows how much hair Emmy had cut each time she went to the hair dresser this year. Use the line plot to answer Exercises 11–12.

11. How many times did Emmy get her hair cut in the year?

12. How much longer was the length of hair Emmy had cut most often than the length of hair she had cut least often?



13. **Stretch Your Thinking** Milo has 3 quarters in his right pocket and 8 dimes in his left pocket. Show the amount of money Milo has in each pocket as a sum of fractions and as a sum of decimals. In which pocket is there more money?

Homework

Write a fraction and a decimal number to show what part of each bar is shaded.



1. Fraction: _____

Decimal Number: _____



2. Fraction: _____

Decimal Number: _____

Write these amounts as decimal numbers.

3. 5 tenths _____

4. 9 hundredths _____

5. 56 hundredths _____

6. $\frac{80}{100}$ _____

7. $\frac{3}{10}$ _____

8. $\frac{1}{100}$ _____

9. 3 cents _____

10. 2 quarters _____

11. 3 nickels _____

Answer the questions below.

12. If you took a test with 10 questions and got 7 of them right, what decimal part would that be? _____
What decimal part did you get wrong? _____

13. If you had a dollar and spent 5 cents, what decimal amount did you spend? _____ What decimal amount do you have left? _____

14. If you had a bag of 100 beads and used 40, what decimal number did you use? Express this number in both tenths and hundredths. _____

15. If you had to travel 100 miles and went 25 miles, what decimal part of the trip did you travel? _____
What decimal part of the trip do you still have left? _____

Remembering

Convert.

1. 7 ft = _____ in.

2. 4 mi = _____ yd

3. 15 yd = _____ ft

4. 2 yd = _____ in.

Add or subtract.

$$\begin{array}{r} 5. \quad 8\frac{4}{8} \\ + 2\frac{2}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 1\frac{1}{3} \\ + 7\frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 5\frac{11}{12} \\ - 1\frac{5}{12} \\ \hline \end{array}$$

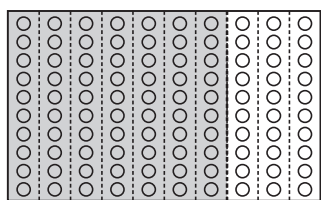
$$\begin{array}{r} 8. \quad 8\frac{2}{5} \\ - 7\frac{4}{5} \\ \hline \end{array}$$

Use the visual to fill in each blank.

9. The shaded part of the whole represents:

$\frac{70}{100}$ represents _____ of _____ equal parts
and the decimal _____.

$\frac{7}{10}$ represents _____ of _____ equal parts
and the decimal _____.



10. Stretch Your Thinking Rosemary put 7 dimes and 3 pennies in a tip jar at the café. Show this amount as a decimal and as a fraction. How much more change would Rosemary have to put in the tip jar to make a whole dollar?

Homework

Write the decimal numbers that come next.

1. 0.05 0.06 0.07 _____ _____ _____ _____

2. 0.26 0.27 0.28 _____ _____ _____ _____

3. 0.3 0.4 0.5 _____ _____ _____ _____

Write each number in decimal form.

4. 9 tenths _____ 5. 5 hundredths _____ 6. 29 hundredths _____

7. $\frac{73}{100}$ _____ 8. $\frac{2}{10}$ _____ 9. $\frac{8}{100}$ _____

10. 4 pennies _____ 11. 3 quarters _____ 12. 6 dimes and 1 nickel _____

Solve.

A small jar contains 4 white gumballs and 6 red gumballs.

13. What decimal number shows which part of the gumballs are red? _____

14. What decimal number shows which part of the gumballs are white? _____

15. A large jar of 100 gumballs has the same fractions of red gumballs and white gumballs as the small jar. How many gumballs in the large jar are red? _____ How many are white? _____

A sidewalk has 100 squares. There are cracks in 9 of the squares.

16. What decimal number shows what part of the sidewalk is cracked? _____

17. What fraction shows what part of the sidewalk is cracked? _____

Write each decimal tenth as a decimal hundredth.

18. $0.6 =$ _____ 19. $0.2 =$ _____ 20. $0.5 =$ _____

Remembering

Solve.

Show your work.

1. Mena bought a 1-gallon jug of water. How many 2-cup servings are in the jug?

2. Kaden's filled backpack weighs 7 pounds. How many ounces does the backpack weigh?

Add or subtract.

3. $\frac{7}{8} - \frac{3}{8} =$

4. $\frac{1}{4} + \frac{3}{4} =$

5. $10\frac{11}{12} - 5\frac{4}{12} =$

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

7. $\frac{4}{9} + 3\frac{4}{9} =$

8. $8\frac{5}{6} - 4\frac{4}{6} =$

Write these amounts as decimal numbers.

9. 8 tenths _____

10. 5 hundredths _____

11. 27 hundredths _____

12. $\frac{2}{100}$ _____

13. $\frac{93}{100}$ _____

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

15. 46 pennies _____

16. 3 nickels _____

17. 9 dimes _____

18. **Stretch Your Thinking** Ben says that 0.80 is greater than 0.8 because 80 is greater than 8. Explain his error.

Homework

Write each number in decimal form.

1. 6 tenths _____ 2. 85 hundredths _____ 3. 9 hundredths _____
 4. 7 tenths _____ 5. $\frac{4}{100}$ _____ 6. $2\frac{9}{10}$ _____
 7. $\frac{23}{10}$ _____ 8. $11\frac{3}{100}$ _____ 9. 6 cents _____
 10. twelve *and* 5 tenths _____
 11. thirty *and* 25 hundredths _____





Write each decimal in expanded form.

12. 27.9 _____
 13. 153.76 _____
 14. 203.06 _____

Use the graph to answer questions 15–17.

15. What decimal part of all the melons did Amy pick? _____
 16. What decimal part of all the melons did Paco pick? _____
 17. What decimal part of all the melons did Joey and Lisa pick together? _____

Melons Picked

Amy	
Joey	
Lisa	
Paco	

Key:  = 1 melon

Solve.

18. A centipede has 100 legs. What decimal part is one leg? _____
 19. At a banquet, each cake was cut into 100 pieces. The guests ate 4 whole cakes and all but one piece of another. What decimal number represents the number of cakes that were eaten? _____
 20. Miguel earned \$10 and saved \$3. What decimal part did he save? _____
 21. Jing earned \$100, and saved \$30. What decimal part did she save? _____

Remembering

Add or subtract.

$$\begin{array}{r} 1. \quad 5,000 \\ - 3,296 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 286,361 \\ + 45,743 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 863,542 \\ - 794,815 \\ \hline \end{array}$$

Multiply.

$$4. \quad 4 \times \frac{1}{5} =$$

$$5. \quad 9 \times \frac{2}{3} =$$

$$6. \quad 3 \times \frac{7}{8} =$$

$$7. \quad 2 \times \frac{5}{12} =$$

$$8. \quad 5 \times \frac{6}{7} =$$

$$9. \quad 7 \times \frac{9}{10} =$$

Write the decimal numbers that come next.

10. 0.03 0.04 0.05 _____

11. 0.2 0.3 0.4 _____

12. 0.75 0.76 0.77 _____

Write each decimal tenth as a decimal hundredth.

13. $0.4 =$ _____

14. $0.9 =$ _____

15. $0.1 =$ _____

16. $0.3 =$ _____

17. $0.5 =$ _____

18. $0.7 =$ _____

19. **Stretch Your Thinking** A handful of paperclips is 5.2 grams. A handful of push pins is 500 centigrams. Which handful weighs more? Explain.

Homework

Write these amounts as decimal numbers.

1. 4 tenths _____

2. 72 hundredths _____

3. 6 hundredths _____

4. 8 cents _____

5. $\frac{68}{100}$ _____

6. $9\frac{4}{10}$ _____

7. $\frac{16}{100}$ _____

8. $6\frac{7}{100}$ _____

9. 30 hundredths _____

Circle the number that does not have the same value as the others.

10. 0.95 0.950 0.905

11. 0.2 0.20 0.02

12. 0.730 0.703 0.73

13. 1.6 1.60 1.06

14. 0.59 5.90 $\frac{59}{100}$

15. 0.08 0.008 0.080

Write $>$, $<$, or $=$ to compare these numbers.

16. 4.67 ○ 12.7 17. 0.35 ○ 0.4 18. 4.58 ○ 1.25 19. 8.3 ○ 0.83

20. 0.92 ○ 0.91 21. 2.3 ○ 0.84 22. 10.1 ○ 10.01 23. 7.4 ○ 0.74

The table shows how far four students jumped in the long jump contest. Use the table to answer the questions.

24. Whose jump was longest? _____

25. Whose jump was shortest? _____

26. Which two students jumped the same distance? _____

Long Jump Contest

Name	Length of Jump
Joshua	1.60 meters
Amanda	1.59 meters
Hester	1.7 meters
Miguel	1.6 meters

Remembering

Choose a measurement unit for each rectangle and find the area and perimeter. Show your work.

1. 11 by 8

2. 5 by 9

3. 2 by 6

Multiply.

4. $5 \cdot \frac{2}{3} =$ _____

5. $12 \cdot \frac{1}{5} =$ _____

6. $8 \cdot \frac{4}{7} =$ _____

7. $6 \cdot \frac{3}{8} =$ _____

Solve.

8. There are 10 servings in a bag of pretzels. At a school picnic, 3 whole bags are eaten and 7 servings of another bag. What decimal number represents the number of bags of pretzels that are eaten?

9. **Stretch Your Thinking** Lance says that you can compare any decimal numbers the way that you alphabetize words. You can tell which number is less (or which word comes first in the dictionary) by comparing each digit (or letter) from left to right. Is Lance's thinking correct? Give a numerical example to explain your reasoning.

HomeworkWrite $>$, $<$, or $=$ to compare these numbers.

1. $\frac{3}{4} \bigcirc \frac{2}{8}$

2. $\frac{4}{10} \bigcirc \frac{4}{5}$

3. $1\frac{3}{6} \bigcirc 2\frac{3}{6}$

4. $1\frac{1}{6} \bigcirc 1\frac{1}{4}$

5. $2\frac{7}{8} \bigcirc 2\frac{3}{7}$

6. $1\frac{4}{9} \bigcirc 1\frac{5}{10}$

Complete.

7. $\frac{3}{9} = \frac{3 \times \boxed{}}{9 \times \boxed{}} = \frac{\boxed{}}{45}$

8. $\frac{6}{10} = \frac{6 \times \boxed{}}{10 \times \boxed{}} = \frac{12}{\boxed{}}$

9. $\frac{5}{8} = \frac{5 \times \boxed{}}{8 \times \boxed{}} = \frac{\boxed{}}{\boxed{}}$

10. $\frac{24}{30} = \frac{24 \div \boxed{}}{30 \div \boxed{}} = \frac{\boxed{}}{5}$

11. $\frac{28}{35} = \frac{28 \div \boxed{}}{35 \div \boxed{}} = \frac{\boxed{}}{\boxed{}}$

12. $\frac{6}{18} = \frac{6 \div \boxed{}}{18 \div \boxed{}} = \frac{1}{\boxed{}}$

Solve.

Show your work

13. Cole lives 2.4 miles from the library. Gwen lives 2.04 miles from the library. Xander lives 2.40 miles from the library. Who lives closest to the library: Cole, Gwen, or Xander?
- _____

14. After making his art project, Robbie has $\frac{2}{10}$ yard of rope left. What is $\frac{2}{10}$ written as a decimal?
- _____