VCA

4th Grade

Summer Math Packet

Name _____

Parents: Here is a packet of review of what your child learned in 4th grade. Doing this over the summer will keep their minds sharp and help them recall what they need to know heading into 5th grade. This is not required but they will receive a special treat if they hand it in when they return to school in the fall.

Mrs. Fitz

VCA Math Coach

Name: _____ Date: _____

Lesson 1.1 Numbers to 100,000 (Part 2)

Complete.

In 52,896,

1. the digit 2 is in the _____ place.

2. the digit 6 is in the _____ place.

3. the digit 5 is in the _____ place.

4. the digit 9 is in the _____ place.

5. the digit 8 is in the _____ place.

In 91,485,

6. the value of the digit 4 is _____.

7. the value of the digit 5 is _____.

8. the value of the digit 9 is _____.

9. the value of the digit 8 is _____.

10. the value of the digit 1 is _____.

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Write the missing numbers and words.

In 73,824,

11. the digit 4 stands for _____ ones.

12. the value of the digit 2 is _____.

13. the digit in the ten thousands place is _____.

14. the digit 8 stands for _____ hundreds.

15. the digit 3 is in the _____ place.

In 96,743,

16. the digit 4 is in the _____ place.

17. the digit 9 stands for _____.

18. the digit 3 is in the _____ place.

19. the value of the digit 6 is _____.

20. the digit _____ is in the hundreds place and its value is _____.

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Lesson 1.3 Adding and Subtracting Multi-Digit Numbers

Add the two numbers.

1. 43,857 + 14,173 = _____

2. 15,628 + 61,467 = _____

3.
$$\begin{array}{r} 32,098 \\ +\ 53,945 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 24,835 \\ +\ 62,165 \\ \hline \end{array}$$

Subtract the two numbers.

5. 72,805 − 14,966 = _____

6. 85,400 − 34,695 = _____

7.
$$\begin{array}{r} 90,437 \\ -\ 33,828 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 60,000 \\ -\ 32,568 \\ \hline \end{array}$$

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9. There are 35,775 children attending a concert. The number of adults attending is 6,380 less than the children.

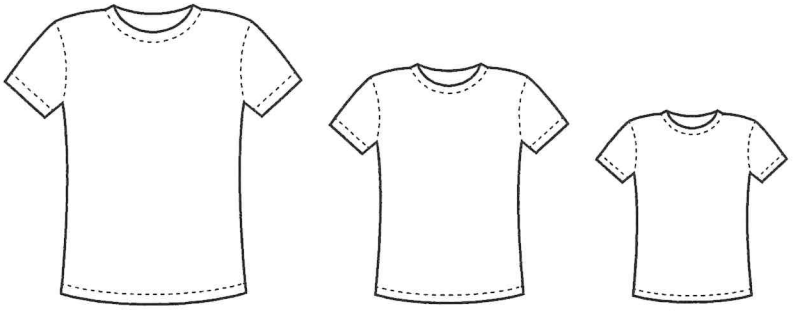
a. How many adults are there attending the concert?

b. How many people are there altogether?

10. A school orders 2,000 T-shirts for an event. Of them, 850 T-shirts are Size L, 260 T-shirts are Size M, and the rest of the T-shirts are Size S.

a. How many Size S T-shirts are there?

b. How many Size M and Size S T-shirts are there altogether?



Size L Size M Size S

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Multiply.

4.
$$\begin{array}{r} 246 \\ \times \quad 3 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 375 \\ \times \quad 4 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 428 \\ \times \quad 5 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 537 \\ \times \quad 6 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 387 \\ \times \quad 7 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 639 \\ \times \quad 7 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 467 \\ \times \quad 8 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 294 \\ \times \quad 8 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 563 \\ \times \quad 9 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 487 \\ \times \quad 9 \\ \hline \end{array}$$

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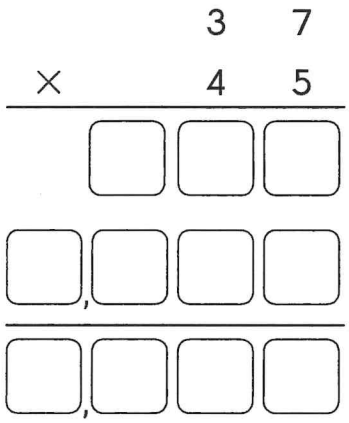
Find each product.

15. $37 \times 5 =$

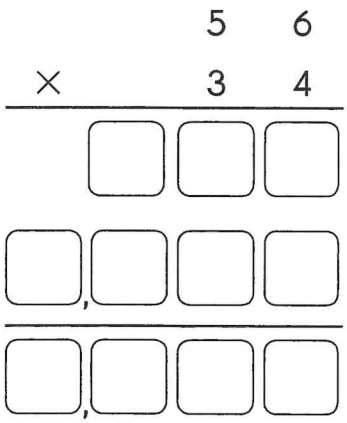
$37 \times 40 =$



$37 \times 45 =$ _____

16. $56 \times 4 =$

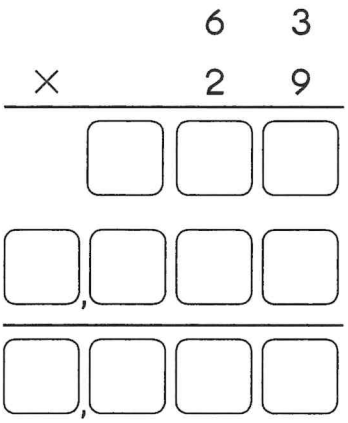
$56 \times 30 =$



$56 \times 34 =$ _____

17. $63 \times 9 =$

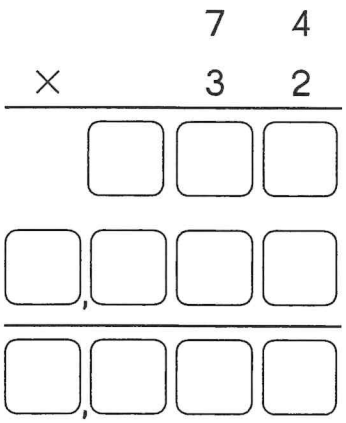
$63 \times 20 =$



$63 \times 29 =$ _____

18. $74 \times 2 =$

$74 \times 30 =$



$74 \times 32 =$ _____

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Multiply. Then estimate to check that your answers are reasonable.

19.

$$\begin{array}{r} 98 \\ \times\ 76 \\ \hline \end{array}$$

20.

$$\begin{array}{r} 54 \\ \times\ 97 \\ \hline \end{array}$$

21.

$$\begin{array}{r} 364 \\ \times\ 29 \\ \hline \end{array}$$

22.

$$\begin{array}{r} 528 \\ \times\ 46 \\ \hline \end{array}$$

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Divide.

3. $2\overline{)728}$

4. $3\overline{)735}$

5. $4\overline{)948}$

6. $5\overline{)930}$

7. $6\overline{)654}$

8. $7\overline{)973}$

9. $8\overline{)984}$

10. $9\overline{)954}$

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Divide.

8. $4\overline{)5,052}$

9. $6\overline{)6,078}$

10. $7\overline{)1,988}$

11. $9\overline{)5,058}$

12. $8\overline{)3,976}$

13. $5\overline{)4,840}$

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Find each quotient. Then estimate to check that your answers are reasonable.

14. 1,748 ÷ 7 = _____ R _____

15. 3,871 ÷ 4 = _____ R _____

16. 3,014 ÷ 8 = _____ R _____

17. 2,518 ÷ 9 = _____ R _____

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Lesson 3.5 Real-World Problems

1. Sharon buys 18 boxes of cupcakes. There are 24 cupcakes in each box.

a. How many cupcakes does Sharon buy?

b. Sharon repacks all the cupcakes in boxes of 8 cupcakes each. How many boxes are needed?

2. There are 35 rows of chairs in a room. Each row has 42 chairs. Some workers remove 120 chairs from the room. How many chairs are there in the room now?

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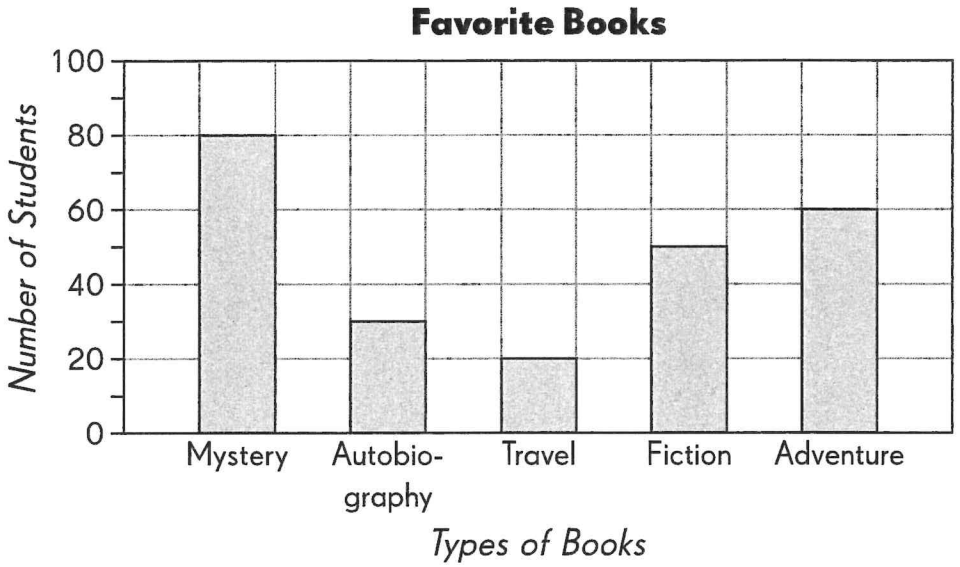
Use the bar graph to answer the questions.

The bar graph shows the favorite books of a group of students.



15. Which type of book did the most students like? _____

16. Which type of book did the fewest students like?

_____

17. How many students were surveyed? _____

18. How many students liked adventure books and mystery books altogether? _____

19. How many students liked travel books and autobiography books altogether? _____

20. How many more students liked mystery books than travel books? _____

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Complete the table. Then answer the questions.

Students from four grades play sports after school — soccer, badminton, baseball, and basketball. The number of students who play each sport is shown in the table below.

Sports Played by Students

Grade	Soccer	Badminton	Baseball	Basketball
2	6	10		12
3	6	9	8	
4		7	14	10
5	7		6	11
Total	28	42	40	50

6. Which is the most popular sport? _____

7. Which is the least popular sport? _____

8. How many more students in the third grade play basketball than in the fifth grade? _____

9. How many students play badminton altogether? _____

10. How many more students play basketball than badminton altogether? _____

11. Which grade has twice as many students playing baseball as the fifth grade? _____

12. How many fewer students play soccer than baseball? _____

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CHAPTER 6

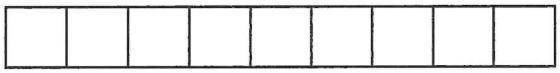
Fractions and Mixed Numbers

Worksheet 1 Adding Fractions

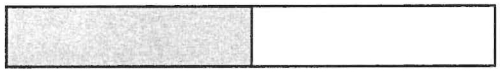
Find the equivalent fraction. Shade the models.

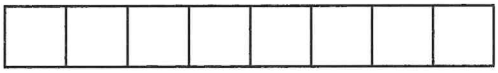
Example

$\frac{2}{3}$ 

? 

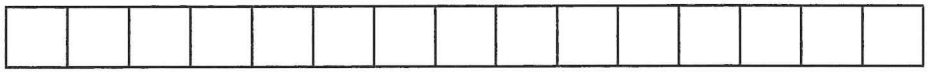
$\frac{2}{3} = \frac{6}{9}$

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

? 

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

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

? 

$\frac{3}{5} = \frac{\square}{\square}$

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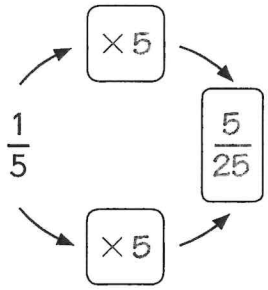
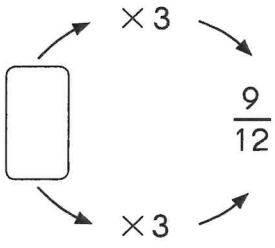
Find the equivalent fractions.

Example

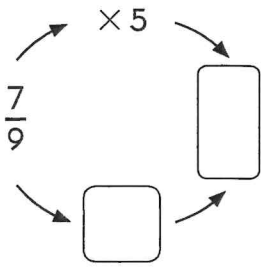


To get the equivalent fraction, multiply both the numerator and the denominator by the same number.

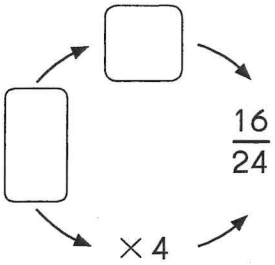
3.



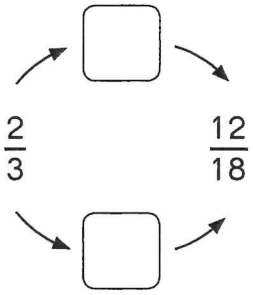
4.



5.



6.



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Express each fraction in simplest form.

Example

$\frac{24}{32}$ $\xrightarrow{\div 8}$ $\frac{3}{4}$

$\frac{24}{32} = \frac{3}{4}$

To simplify a fraction, divide both the numerator and the denominator by the same number.

11. $\frac{12}{34} = \frac{\square}{\square}$

12. $\frac{18}{42} = \frac{\square}{\square}$

A fraction is in its simplest form when the numerator and the denominator cannot both be divided by the same number.

13. $\frac{21}{63} = \frac{\square}{\square}$

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Subtract. Write each answer in simplest form.

3. $\frac{3}{4} - \frac{5}{12} = \frac{\square}{\square} - \frac{\square}{\square} = \square = \square$

4. $\frac{4}{5} - \frac{3}{10} = \frac{\square}{\square} - \frac{\square}{\square} = \square = \square$

5. $1 - \frac{7}{12} - \frac{1}{4} = \square = \square$

6. $1 - \frac{6}{16} - \frac{4}{8} = \square = \square$

7. Subtract $\frac{1}{3}$ from $\frac{5}{6}$.

8. Subtract $\frac{5}{6}$ from $\frac{11}{12}$.

9. The difference between $\frac{7}{10}$ and $\frac{3}{5}$ is $\square$.

10. The difference between 1 and $\frac{7}{8}$ is $\square$.

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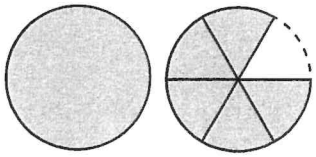
Lesson 6.3 Mixed Numbers

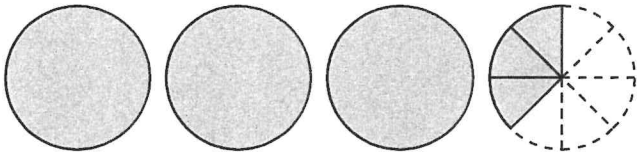
Write a mixed number for each model.

1.



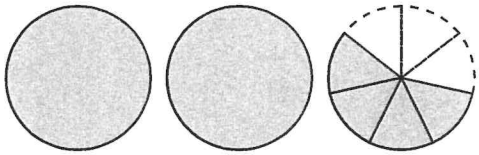
$1 + \frac{5}{6} =$ ☐

2.



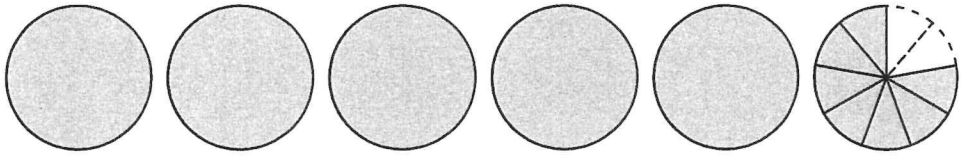
$3 + \frac{3}{8} =$ ☐

3.



$2 + \frac{4}{7} =$ ☐

4.



$5 + \frac{7}{9} =$ ☐

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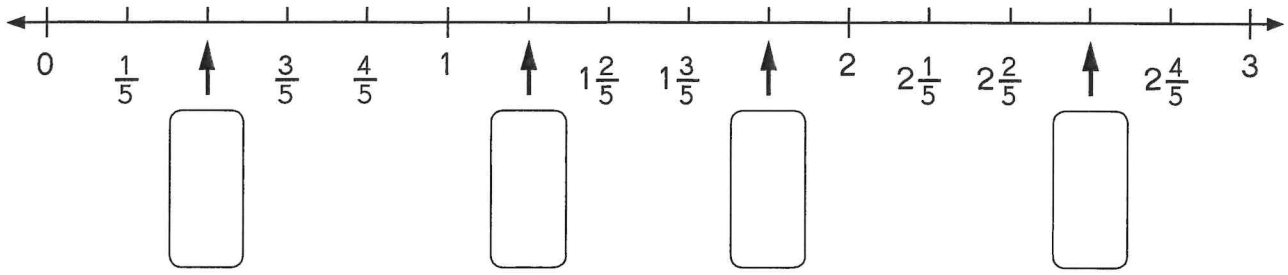
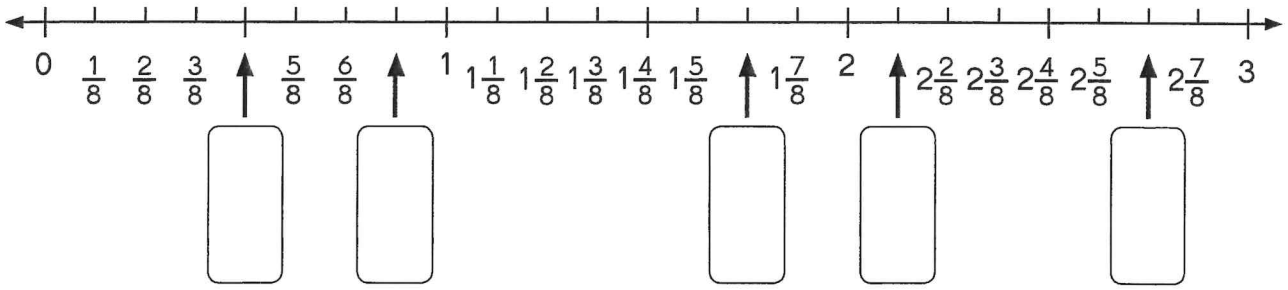
Write the correct fraction or mixed number in each box.
Express each answer in simplest form.

20.



21.



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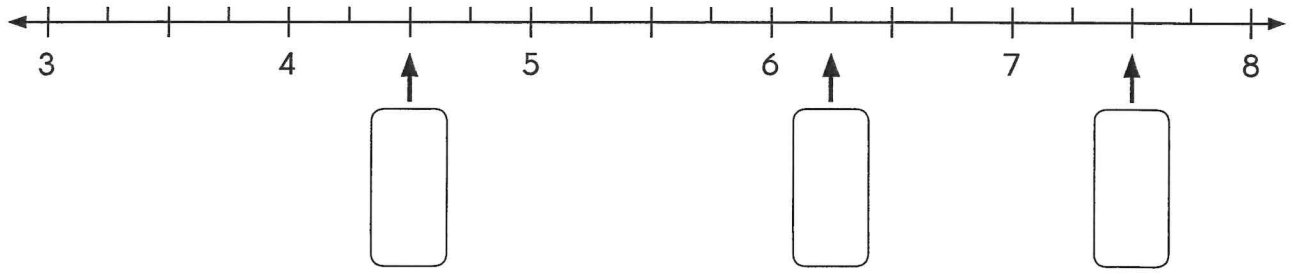
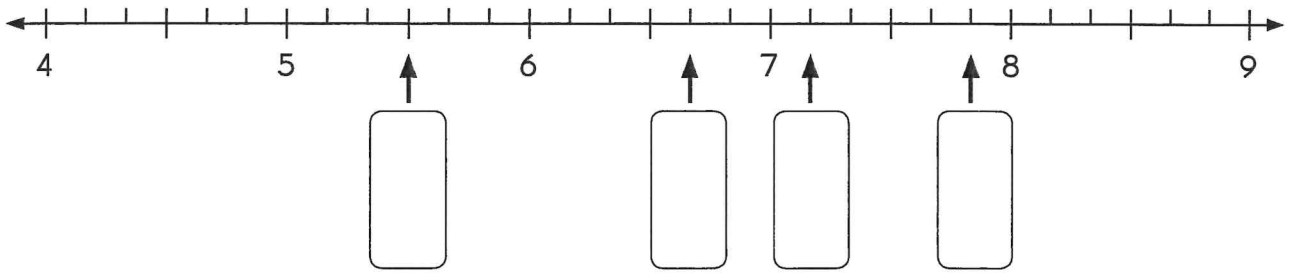


23.



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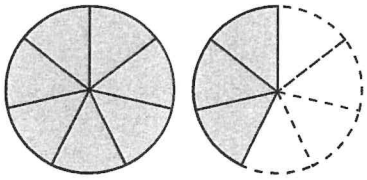
Lesson 6.4 Improper Fractions

Write each mixed number as an improper fraction.

1.



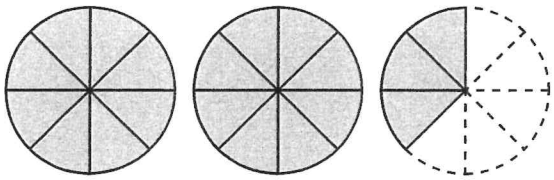
a. $1 =$ _____ sevenths

b. $\frac{3}{7} =$ _____ sevenths

c. $1\frac{3}{7} =$ _____ sevenths

$=$ ☐

2.



a. $2 =$ _____ eighths

b. $\frac{3}{8} =$ _____ eighths

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

$=$ ☐

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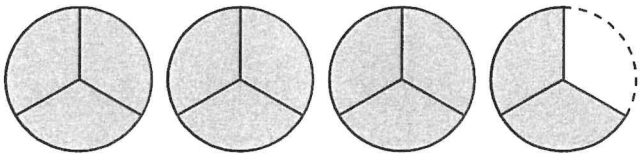
3.



a. $3 =$ _____ thirds

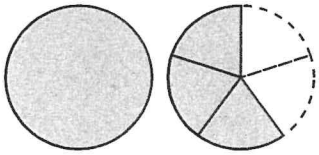
b. $\frac{2}{3} =$ _____ thirds

c. $3\frac{2}{3} =$ _____ thirds

$=$ ☐

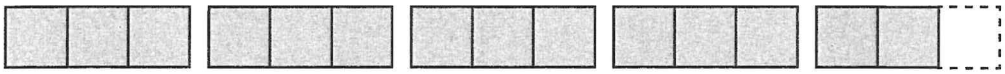
Write the improper fractions for the shaded parts.

4.



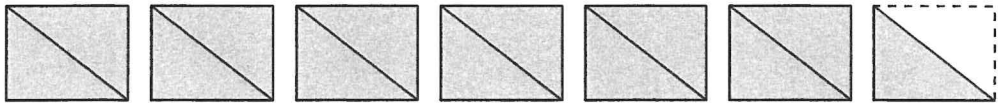
$1\frac{3}{5} =$ ☐

5.



$4\frac{2}{3} =$ ☐

6.



$6\frac{1}{2} =$ ☐

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Express each improper fraction as a mixed number in simplest form.

7. $\frac{16}{6} = 2 + \frac{\square}{6}$

$= \square$

8. $\frac{20}{8} = 2 + \frac{\square}{8}$

$= \square$

9. $\frac{15}{2} = \square$

10. $\frac{18}{10} = \square$

11. $\frac{21}{9} = \square$

12. $\frac{15}{12} = \square$

13. $\frac{22}{7} = \square$

14. $\frac{36}{6} = \square$

15. $\frac{30}{4} = \square$

16. $\frac{42}{5} = \square$

17. $\frac{28}{13} = \square$

18. $\frac{48}{15} = \square$

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Express each mixed number as an improper fraction.

25. $4\frac{1}{3} =$ ☐

26. $2\frac{3}{10} =$ ☐

27. $1\frac{2}{7} =$ ☐

28. $1\frac{5}{9} =$ ☐

29. $2\frac{1}{4} =$ ☐

30. $2\frac{5}{12} =$ ☐

31. $1\frac{3}{10} =$ ☐

32. $1\frac{2}{11} =$ ☐

33. $5\frac{4}{5} =$ ☐

34. $3\frac{8}{9} =$ ☐

35. $6\frac{1}{5} =$ ☐

36. $7\frac{2}{7} =$ ☐

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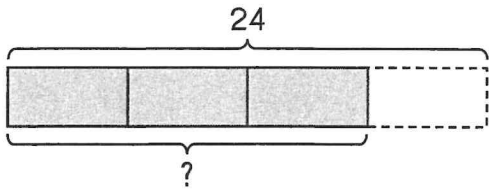
Use a model to help you answer each question.

Example

What is $\frac{3}{4}$ of 24?

4 units = 24
1 unit = 6
3 units = 6 × 3 = 18

So, $\frac{3}{4}$ of 24 = 18.



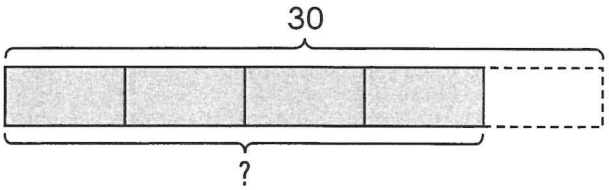
5. What is $\frac{4}{5}$ of 30?

5 units = _____

1 unit = _____

4 units = _____

So, $\frac{4}{5}$ of 30 = _____.



6. What is $\frac{5}{6}$ of 48?

7. What is $\frac{5}{12}$ of 60?

Solve.

8. $\frac{2}{3} \times 45 =$

9. $\frac{4}{9} \times 36 =$

10. $\frac{2}{7} \times 35 =$

11. $\frac{3}{8} \times 32 =$

12. $\frac{5}{6} \times 60 =$

13. $\frac{3}{4} \times 36 =$

14. $\frac{7}{9} \times 45 =$

15. $\frac{3}{5} \times 40 =$

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Write each of these as a decimal.

11. 4 tenths = _____

12. 25 tenths = _____

13. 68 tenths = _____

14. 176 tenths = _____

15. 3 ones and 9 tenths = _____

16. 40 ones and 2 tenths = _____

Write each fraction or mixed number as a decimal.

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

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

19. $4\frac{8}{10}$ = _____

20. $7\frac{2}{10}$ = _____

21. $16\frac{1}{10}$ = _____

22. $44\frac{5}{10}$ = _____

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

24. $\frac{50}{10}$ = _____

25. $\frac{210}{10}$ = _____

26. $\frac{201}{10}$ = _____

27. $\frac{300}{10}$ = _____

28. $\frac{330}{10}$ = _____

Name: _____ Date: _____

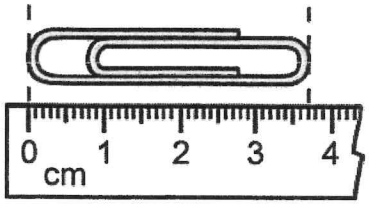
Write each number as a fraction and as a decimal.
Complete the table.

	Number of Tenths	Fraction	Decimal
29.	6 tenths		
30.	19 tenths		
31.	57 tenths		
32.	124 tenths		
33.	203 tenths		
34.	455 tenths		

Write a fraction and a decimal for each measure.

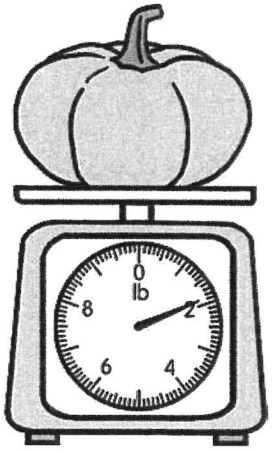
35. Length of paper clip = ☐ cm

= ☐ cm



36. Weight of pumpkin = ☐ lb

= ☐ lb



Name: _____ Date: _____

Write each of these as a decimal.

11. 9 hundredths = _____

12. 10 hundredths = _____

13. 35 hundredths = _____

14. 206 hundredths = _____

15. 8 tenths 6 hundredths = _____

16. 41 ones and 3 hundredths = _____

17. 50 ones and 22 hundredths = _____

Write each fraction or mixed number as a decimal.

18. $\frac{4}{100}$ = _____

19. $\frac{19}{100}$ = _____

20. $\frac{65}{100}$ = _____

21. $\frac{80}{100}$ = _____

22. $2\frac{14}{100}$ = _____

23. $15\frac{3}{100}$ = _____

24. $30\frac{8}{100}$ = _____

25. $\frac{169}{100}$ = _____

26. $\frac{202}{100}$ = _____

27. $\frac{250}{100}$ = _____

Write each decimal in hundredths.

28. 0.08 = _____ hundredths

29. 0.25 = _____ hundredths

30. 0.40 = _____ hundredths

31. 6.07 = _____ hundredths

32. 5.39 = _____ hundredths

33. 9.80 = _____ hundredths

Name: _____ Date: _____

6.13 can be written as $6 + \frac{1}{10} + \frac{3}{100}$. Complete in the same way.

45. $1.56 = \square + \square + \square$

46. $24.07 = \square + \square + \square + \square$

7.45 can be written as 7 + 0.4 + 0.05. Complete in the same way.

47. $3.89 = \square + \square + \square$

48. $51.52 = \square + \square + \square + \square$

Fill in the blanks.

49.

Ones		Tenths	Hundredths
4	•	8	3

The digit 3 is in the _____ place. Its value is _____.

50.

Ones		Tenths	Hundredths
7	•	0	9

The digit 0 is in the _____ place. Its value is _____.