

Sixth Grade Math Overview

Math

First Semester

Two-digit divisors
Reducing fractions to lowest terms
Lowest common denominator
Multiplying and dividing fractions and mixed numbers
Multiplying and dividing decimals
Dividends of less than one
Measurements of distance, weight, and volume

Second Semester

Calculating percentages
Converting between fractions, decimals, and percentages
Ratios and probability
Perimeter, radius, and diameter
Area of irregular shapes
Equations with missing numbers
Exponents
Order of operations

Grade 6

Math

Workbook



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Lesson

1

Skills Check

1.
$$\begin{array}{r} 76 \\ \times 5 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 734 \\ 106 \\ 25 \\ + 81 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 5,164 \\ -1,497 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 638 \\ 104 \\ + 29 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 9,003 \\ - 834 \\ \hline \end{array}$$

6. Sam went on a cross-country trip in his car. The first day he drove 217 miles, the second day he went 329 miles, the third day he traveled 314 miles, and the fourth day he drove 215 miles. How many miles did he travel in the first four days of his trip?
7. Jim went on a trip to Europe and took \$1,500 with him. After one week, he counted his money and found he had \$812 left. How much money had he spent the first week?

Lesson

1

New Skills Practice: Multiplication and Division of Whole Numbers

1.
$$\begin{array}{r} 43 \\ \times 15 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 34 \\ \times 7 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 62 \\ \times 6 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 75 \\ \times 4 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 6,751 \\ \times 301 \\ \hline \end{array}$$

6. $3,173 \times 1,000$

7.
$$\begin{array}{r} 5,074 \\ \times 136 \\ \hline \end{array}$$

8.
$$6 \overline{)786}$$

9. $950 \div 5$

10. $4 \overline{)92}$

11. $2 \overline{)821}$

12. $429 \div 7$

13. $8 \overline{)989}$

Lesson

1

Test

1.
$$\begin{array}{r} 8,035 \\ - 746 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 524 \\ \times 637 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 182 \\ + 7,608 \\ \hline \end{array}$$

4.
$$4 \overline{)98}$$

5.
$$\begin{array}{r} 5,063 \\ \times 247 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 3,176 \\ - 490 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 608 \\ + 753 \\ \hline \end{array}$$

8.
$$2 \overline{)610}$$

9. $47 \times 3,000$

10. $6 \overline{)792}$

11.
$$\begin{array}{r} 1,248 \\ + 237 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 9,348 \\ - 479 \\ \hline \end{array}$$

- 13.** Alyssa earns \$25 a week babysitting. How much money can she earn in 4 weeks?
- 14.** Dean's car can travel 21 miles on a gallon of gas. If his gas tank holds 15 gallons, how far can he travel on a full tank of gas?
- 15.** Putney Equipment Company sold \$7,106 worth of generators in October. In September their generator sales were \$5,418. How much more were their generator sales in October than in September?

- 16.** Jill's father is a pilot. The airplane he flies can carry 396 passengers. If each passenger is allowed to take 60 pounds of luggage, how many total pounds can the plane carry in luggage?

Learning Checklist

You will find a checklist at the end of each test that will help you keep track of the skills you are working on: what you need help with, what you can do on your own, and what feels easy. Take a few moments to fill it out after you have finished your test for each lesson. You or your parent can also add notes about what you are working on or have questions about.

Please remember that these skills continue to develop over time so don't worry if you can't do all of them yet. The main goal is to be aware of which skills you need to focus on.

SKILLS	Developing	Consistent	Competent	Notes
Demonstrate basic skills using the four processes (addition, subtraction, multiplication, and division)				
Multiply multi-digit whole numbers				
Multiply by multiples of 10, 100, and 1,000				
Perform long division with a single-digit divisor				
Express a remainder in division as a fraction				
Translate word problems into numeric equations using the four processes				
Use unit labels and complete sentences when writing solutions to word problems				
Check work using inverse operations				

Lesson

2

Skills Check

1. 349×100

2.
$$\begin{array}{r} 675 \\ \times 84 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 83 \\ \times 97 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 238 \\ \times 63 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 6,135 \\ - 247 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 3,169 \\ + 1,075 \\ \hline \end{array}$$

7.
$$3 \overline{)749}$$

Lesson

2

New Skills Practice: Two-Digit Divisors, and Estimating with Large Divisors

1. $20 \overline{)782}$

2. $30 \overline{)635}$

3. $307 \div 20$

4. $7,418 \div 62$

5. $26 \overline{)7,048}$

6. $63 \overline{)8,325}$

7. $4,210 \div 18$

8. $34 \overline{)6,995}$

9. $9,061 \div 45$

10. $36 \overline{)6,084}$

11. $32 \overline{)5,897}$

12. $27 \overline{)9,018}$

Lesson

2

Test

1.
$$\begin{array}{r} 3,406 \\ \times 581 \\ \hline \end{array}$$

2.
$$20 \overline{)4,095}$$

3.
$$15 \overline{)385}$$

4.
$$\begin{array}{r} 376 \\ \times 534 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 6,004 \\ - 2,387 \\ \hline \end{array}$$

6.
$$5 \overline{)782}$$

7.
$$\begin{array}{r} 804 \\ \times 397 \\ \hline \end{array}$$

8.
$$25 \overline{)3,048}$$

9.
$$\begin{array}{r} 4,064 \\ \times 583 \\ \hline \end{array}$$

10. $18 \overline{)396}$

11.
$$\begin{array}{r} 509 \\ \times 38 \\ \hline \end{array}$$

12. Joan's father is 42 years old today. How many *days* old is he? (Note: don't add any days for leap years; just count each year as 365 days.)

Learning Checklist

Fill out this checklist to keep track of the skills you are working on. You can also add notes to help your parent or teacher understand how to help you (or your parent might want to add notes in this space).

Please remember that these skills continue to develop over time so don't worry if you can't do all of them yet. The main goal is to be aware of which skills you need to focus on.

SKILLS	Developing	Consistent	Competent	Notes
Perform long division with multi-digit divisors				
Use estimating when solving long division with multi-digit divisors				

Lesson

6

Skills Check

Reduce all fractions in answers to lowest terms.

1. $74 \overline{)7,992}$

2.
$$\begin{array}{r} 3\frac{5}{8} \\ + 2\frac{1}{8} \\ \hline \end{array}$$

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

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

5. $4 \overline{)1,309}$

6. $50 \overline{)6,100}$

$$\begin{array}{r} 7. \quad 7,241 \\ \times \quad 503 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad \frac{9}{15} \\ + \frac{3}{15} \\ \hline \end{array}$$

$$9. \quad \frac{3}{12} + \frac{5}{12}$$

$$10. \quad 12 \overline{)2,187}$$

$$\begin{array}{r} 11. \quad \frac{11}{16} \\ - \frac{5}{16} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 3,007 \\ \times \quad 386 \\ \hline \end{array}$$

Lesson

6

New Skills Practice: Lowest Common Denominator (LCD) in Mixed Number Addition and Subtraction

Reduce answers to lowest terms.

1. $\frac{1}{2} + \frac{1}{4}$

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

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

4. $\frac{3}{8}$
 $+\frac{4}{16}$

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

6. $\frac{1}{4}$
 $-\frac{1}{10}$

Find the lowest common denominator and solve.

$$\begin{array}{r} 7. \quad \frac{3}{8} \\ - \frac{1}{12} \\ \hline \end{array}$$

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

$$\begin{array}{r} 9. \quad 13\frac{1}{2} \\ + 7\frac{3}{6} \\ \hline \end{array}$$

$$10. \quad 16\frac{8}{12} - 5\frac{2}{8}$$

$$11. \quad 6\frac{5}{12} + 5\frac{7}{8}$$

$$12. \quad 13\frac{5}{6} - 9\frac{1}{4}$$

$$13. \quad 17\frac{1}{2} - 9\frac{4}{5}$$

$$\begin{array}{r} 14. \quad 8\frac{1}{9} \\ - 3\frac{2}{3} \\ \hline \end{array}$$

$$15. \quad 25\frac{1}{6} - 16\frac{3}{4}$$

Lesson

6

Test

Reduce all fractions in answers to lowest terms.

$$\begin{array}{r} 1. \quad 9\frac{3}{4} \\ - 5\frac{2}{3} \\ \hline \end{array}$$

$$2. \quad 7\frac{1}{6} + 8\frac{3}{4}$$

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

$$4. \quad 7 - \frac{2}{3}$$

$$\begin{array}{r} 5. \quad 12 \\ + 6\frac{6}{9} \\ \hline \end{array}$$

$$6. \quad 4 \overline{)8,158}$$

$$\begin{array}{r} 7. \quad 39 \\ - 7\frac{7}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 2,905 \\ \times 306 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 11\frac{5}{6} \\ + 3\frac{1}{2} \\ \hline \end{array}$$

Reduce all fractions in answers to lowest terms.

10. $27\frac{1}{6} - 13\frac{1}{4}$

11. $14\frac{5}{7}$
 $- 5\frac{2}{7}$

12. $7\frac{1}{6}$
 $+ 3\frac{3}{6}$

13. $42\frac{1}{5}$
 $+ 17\frac{2}{3}$

14. $6\frac{3}{8} + 12\frac{1}{8}$

- 15.** Sharla is making two loaves of banana bread. She needs 8 cups of flour, but she only has $5\frac{1}{4}$ cups. How much more flour does she need?

- 16.** Jackson made a cherry pie and cut it into 8 pieces. He ate 2 pieces and his sister ate 3 pieces. What fraction of the pie did they eat together?

Learning Checklist

SKILLS	Developing	Consistent	Competent	Notes
Identify common denominator for two fractions				
Identify lowest common denominator				
Subtract mixed numbers using LCDs and regrouping				

Lesson

17

Skills Review: Test

1. 5.6×7.947

2. 0.612×5

3. 8.61×0.305

4. $22.8 \div 6$

5. $7 \overline{)22.47}$

6. $4.2 \div 3$

7. $0.18 \div 3$

8. $7 \overline{)0.049}$

9. $0.48 \div 3$

10. $169.2 \div 1,000$

11. $348.7 \div 100$

12. $290.7 \div 10$

13. $1.922 \div .2$

14. $.14 \overline{) .7686}$

15. $9.240 \div .3$

16. $12 - 5.38$

17. $9.97 - 0.56$

18. $8.49 - 1.07$

Learning Checklist

CUMULATIVE SKILLS LESSONS 14–16	Developing	Consistent	Competent	Notes
Multiply using decimals				
Multiply decimals and whole numbers				
Multiply decimals by 10, 100, and 1,000				
Divide decimals by whole numbers				
Divide using dividends less than 1				
Solve division problems involving decimals with remainders				
Divide decimals by 10, 100, and 1,000				
Divide decimals by decimals				
Divide whole numbers by decimals				

Lesson

23

Skills Check

Reduce all common fractions to lowest terms.

1.
$$\begin{array}{r} 25.04 \\ \times 37 \\ \hline \end{array}$$

2. $4\frac{3}{8} \div \frac{5}{8}$

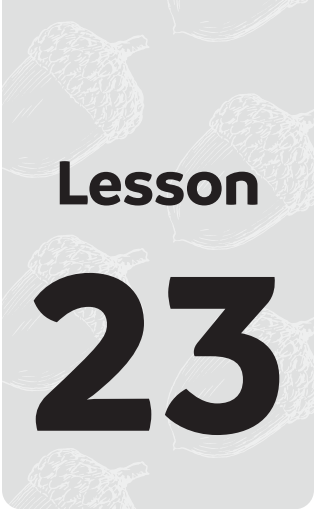
3. $86 \div 4$

4.
$$\begin{array}{r} 19.82 \\ \times 3.5 \\ \hline \end{array}$$

5. $1.06 - .247$

6. $.2 \overline{)35}$

7. $3 \overline{).018}$



Lesson

23

New Skills Practice: Squares and Square Roots, Place Value to Trillions

1. What is the square of 8?
2. What is the square of 2.4?
3. What is the square of 9.1?
4. What is the square of 30?
5. What is the square of 100?
6. What is the square of 1.5?

- 7.** What is the square of 5.7?

- 8.** What is the square root of 25?

- 9.** What is the square root of 81?

- 10.** What is the square root of 4?

- 11.** What is the square root of 49?

- 12.** What is the square root of 1?

- 13.** What is the square root of 100?

- 14.** What is the square root of 9?

15. What is the square root of 36?

16. What is the square root of 16?

17. What is the square root of 64?

18. What is the value of the 5 in 5,413,968,302? _____

19. What is the value of the 8 in 617,385,002? _____

20. What is the value of the 1 in 1,782,539,400,960? _____

21. What is the value of the 4 in 5,683,854? _____

Write the following using words:

22. 86,394,872 _____

23. 2,918,006,241 _____

Write the following using words:

- 24.** 5,500,287,404,312 _____

Write the following using numbers:

- 25.** Nine trillion, two hundred billion,
ninety-six million, three hundred
twenty-nine thousand, six hundred one _____
- 26.** Five billion, one hundred million,
six hundred thousand, three hundred _____
- 27.** Twenty-four million, three hundred five
thousand, five hundred eighteen _____
- 28.** List all the prime numbers less than 50. (Hint: there are 15 of them.)

Lesson

23

Test

Reduce all common fractions to lowest terms.

1. $14.725 + 1.63$

2. $9 \overline{)24.48}$

3. $2 \overline{).19}$

4. $4\frac{1}{5} \times 1\frac{3}{7}$

5. $8 \overline{)97.92}$

6.
$$\begin{array}{r} 1.924 \\ \times \quad 12 \\ \hline \end{array}$$

7. $2\frac{1}{7} \div 3\frac{4}{7}$

8. $84 \div 2.8$

9.
$$\begin{array}{r} 13.56 \\ \times \quad 8.2 \\ \hline \end{array}$$

Reduce all common fractions to lowest terms.

10. $21.40 - .796$

11. $5 \overline{)31.45}$

12. $.8 \overline{)12.16}$

- 13.** Frank went on a four-day hike on the Appalachian Trail. He hiked 10 miles the first day, 15 miles the second day, 12 miles the third day, and 11 miles the fourth day. How many more miles did he hike in the first two days than in the second two days?

- 14.** There were 12 boys and 16 girls at the Cloverdale teen dance. What was the ratio of boys to girls at the dance? Reduce your answer to lowest terms.

- 15.** Jackson has 12 rocks of equal size in his pocket. 3 rocks are granite, 7 are sandstone, and 2 are quartz. If he reaches in his pocket and picks out one rock, what is the probability he will pick a piece of granite? Reduce your answer to lowest terms.
- 16.** The meteorologist decides that there is a probability of $\frac{8}{10}$ that it will rain tomorrow. When he gives his report on television, what will he say is the *chance* of rain tomorrow?

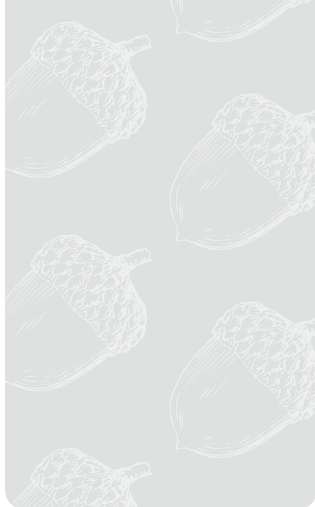
Learning Checklist

SKILLS	Developing	Consistent	Competent	Notes
Calculate the square of a number				
Calculate square roots				
Identify place value up to trillions				
Write large numbers in words				



Appendix

Extra Practice Worksheets.....	289
Answer Key	375



Multiplication

1.
$$\begin{array}{r} 98 \\ \times 42 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 53 \\ \times 9 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 81 \\ \times 23 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 72 \\ \times 5 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 56 \\ \times 75 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 82 \\ \times 97 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 34 \\ \times 26 \\ \hline \end{array}$$

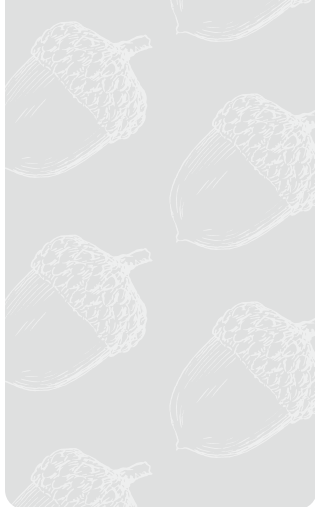
8.
$$\begin{array}{r} 18 \\ \times 6 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 24 \\ \times 5 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 38 \\ \times 3 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 25 \\ \times 48 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 42 \\ \times 75 \\ \hline \end{array}$$



Multiplication with Large Numbers

1.
$$\begin{array}{r} 738 \\ \times 249 \\ \hline \end{array}$$

2. 853×10

3.
$$\begin{array}{r} 3,045 \\ \times 273 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 5,402 \\ \times 163 \\ \hline \end{array}$$

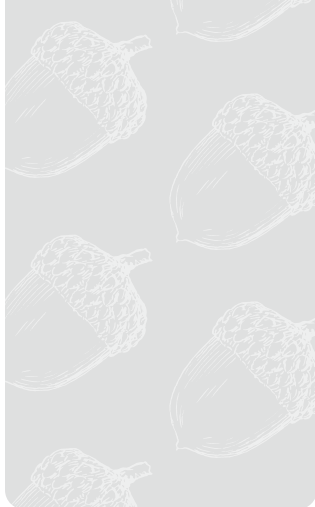
5.
$$\begin{array}{r} 954 \\ \times 434 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 702 \\ \times 815 \\ \hline \end{array}$$

7. 539×100

8.
$$\begin{array}{r} 219 \\ \times 413 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 3,725 \\ \times 537 \\ \hline \end{array}$$



Division with Remainders

1. $3 \overline{)707}$

2. $950 \div 4$

3. $5 \overline{)459}$

4. $846 \div 6$

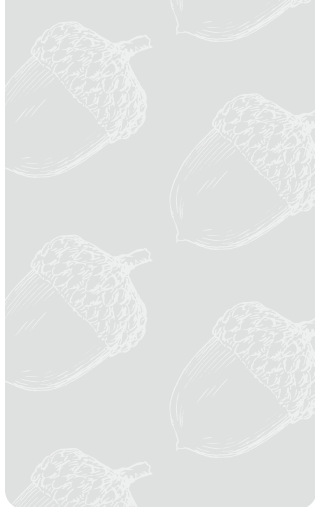
5. $2 \overline{)632}$

6. $5 \overline{)225}$

7. $4 \overline{)499}$

8. $3 \overline{)467}$

9. $703 \div 6$



Division with Two-Digit Divisors

1. $850 \div 50$

2. $30 \overline{)508}$

3. $60 \overline{)891}$

4. $341 \div 10$

5. $561 \div 30$

6. $50 \overline{)595}$

7. $40 \overline{)449}$

8. $70 \overline{)981}$

9. $40 \overline{)658}$



Converting and Writing Decimal Fractions

Write the following decimals in words:

1. 4.5 _____

2. 0.6 _____

3. 18.7 _____

4. 7.9 _____

5. 3.41 _____

6. 9.16 _____

7. 0.85 _____

8. 8.07 _____

9. 15.381 _____

10. 0.275 _____

11. 6.355 _____

12. 21.756 _____

Write the following decimals as common fractions. Do not reduce.

13. 2.9 _____

14. 0.3 _____

15. 12.1 _____

16. 5.8 _____

17. 17.82 _____

18. 1.70 _____

19. 0.33 _____

20. 6.97 _____

21. 22.986 _____

22. 0.451 _____

23. 7.892 _____

24. 16.317 _____

Write the following as decimals:

25. Eight tenths

26. $5\frac{3}{10}$

27. Fourteen and one tenth

28. $16\frac{7}{10}$

29. Four and eighteen hundredths

30. $16\frac{46}{100}$

31. Ninety-three hundredths

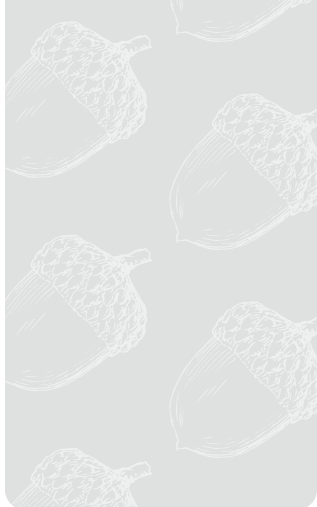
32. $7\frac{12}{100}$

33. $73\frac{179}{1,000}$

34. Nine and forty-eight thousandths

35. Three hundred ninety-seven thousandths

36. $3\frac{458}{1,000}$



Solving Equations Involving Parentheses

1. $(5 + 2) - 4$

2. $16 - (3 - 2)$

3. $(16 - 7) - 3$

4. $16 - 4 + (10 - 5)$

5. $7 + (12 - 4)$

6. $(16 - 11) + 2$



Answer Key

Skill Practice and Test Problems

Lesson 1

Skills Check

- | | | | |
|--------|----------|----------------|----------|
| 1. 380 | 3. 3,667 | 5. 8,169 | 7. \$688 |
| 2. 946 | 4. 771 | 6. 1,075 miles | |

New Skills Practice

- | | | | |
|--------|--------------|--------|----------------------|
| 1. 645 | 5. 2,032,051 | 8. 131 | 11. $410\frac{1}{2}$ |
| 2. 238 | 6. 3,173,000 | 9. 190 | 12. $61\frac{2}{7}$ |
| 3. 372 | 7. 690,064 | 10. 23 | 13. $123\frac{5}{8}$ |
| 4. 300 | | | |

Lesson 1 Test

- | | | | |
|--------------------|--------------|------------|-------------------|
| 1. 7,289 | 5. 1,250,561 | 9. 141,000 | 13. \$100 |
| 2. 333,788 | 6. 2,686 | 10. 132 | 14. 315 miles |
| 3. 7,790 | 7. 1,361 | 11. 1,485 | 15. \$1,688 |
| 4. $24\frac{2}{4}$ | 8. 305 | 12. 8,869 | 16. 23,760 pounds |

Lesson 2**Skills Check**

- | | | | |
|-----------|-----------|----------|---------------------|
| 1. 34,900 | 3. 8,051 | 5. 5,888 | 7. $249\frac{2}{3}$ |
| 2. 56,700 | 4. 14,994 | 6. 4,244 | |

New Skills Practice

- | | | | |
|---------------------|-----------------------|-----------------------|-----------------------|
| 1. $39\frac{2}{20}$ | 4. $119\frac{40}{62}$ | 7. $233\frac{16}{18}$ | 10. 169 |
| 2. $21\frac{5}{30}$ | 5. $271\frac{2}{26}$ | 8. $205\frac{25}{34}$ | 11. $184\frac{9}{32}$ |
| 3. $15\frac{7}{20}$ | 6. $132\frac{9}{63}$ | 9. $201\frac{16}{45}$ | 12. 334 |

Lesson 2 Test

- | | | | |
|-----------------------|---------------------|-----------------------|------------|
| 1. 1,978,886 | 4. 200,784 | 7. 319,188 | 10. 22 |
| 2. $204\frac{15}{20}$ | 5. 3,617 | 8. $121\frac{23}{25}$ | 11. 19,342 |
| 3. $25\frac{10}{15}$ | 6. $156\frac{2}{5}$ | 9. 2,369,312 | 12. 15,330 |

Lesson 3**Skills Check**

- | | | | |
|----------|----------|---------------|----------------|
| 1. \$780 | 2. \$130 | 3. 4,317 rods | 4. 1,961 books |
|----------|----------|---------------|----------------|

New Skills Practice

- | | | | |
|-------------------|------------------|-------------------|--------------------|
| 1. $\frac{3}{4}$ | 4. $\frac{2}{3}$ | 7. $1\frac{1}{3}$ | 10. $1\frac{4}{9}$ |
| 2. $\frac{2}{12}$ | 5. $\frac{5}{6}$ | 8. $1\frac{2}{5}$ | 11. $1\frac{1}{4}$ |
| 3. $\frac{6}{13}$ | 6. $\frac{2}{9}$ | 9. $1\frac{4}{8}$ | 12. $1\frac{1}{2}$ |

Lesson 5 Test

- | | | | |
|-----------------------|--------------------|----------------------|-----------------------------|
| 1. 245,168 | 6. $40\frac{1}{3}$ | 11. $235\frac{1}{4}$ | 16. $12\frac{4}{5}$ |
| 2. $2,764\frac{2}{3}$ | 7. 3,013,790 | 12. $5\frac{3}{4}$ | 17. 3 hours |
| 3. $17\frac{2}{3}$ | 8. $21\frac{1}{2}$ | 13. $7\frac{1}{3}$ | 18. \$23,400 |
| 4. $35\frac{1}{4}$ | 9. $14\frac{2}{5}$ | 14. $8\frac{4}{7}$ | 19. $18\frac{1}{2}$ gallons |
| 5. $4\frac{1}{2}$ | 10. 213,816 | 15. 43 | 20. 30 months |

Lesson 6**Skills Check**

- | | | | |
|-------------------|---------------------|------------------|----------------------|
| 1. 108 | 4. $4\frac{1}{2}$ | 7. 3,642,223 | 10. $182\frac{1}{4}$ |
| 2. $5\frac{3}{4}$ | 5. $327\frac{1}{4}$ | 8. $\frac{4}{5}$ | 11. $\frac{3}{8}$ |
| 3. $\frac{1}{2}$ | 6. 122 | 9. $\frac{2}{3}$ | 12. 1,160,702 |

New Skills Practice

- | | | | |
|-------------------|--------------------|----------------------|---------------------|
| 1. $\frac{3}{4}$ | 5. $\frac{11}{12}$ | 9. 21 | 13. $7\frac{7}{10}$ |
| 2. $\frac{7}{8}$ | 6. $\frac{3}{20}$ | 10. $11\frac{5}{12}$ | 14. $4\frac{4}{9}$ |
| 3. $\frac{5}{12}$ | 7. $\frac{7}{24}$ | 11. $12\frac{7}{24}$ | 15. $8\frac{5}{12}$ |
| 4. $\frac{5}{8}$ | 8. $\frac{11}{18}$ | 12. $4\frac{7}{12}$ | |

Lesson 6 Test

- | | | | |
|----------------------|-----------------------|-----------------------|-------------------------|
| 1. $4\frac{1}{12}$ | 5. $18\frac{2}{3}$ | 9. $15\frac{1}{3}$ | 13. $59\frac{13}{15}$ |
| 2. $15\frac{11}{12}$ | 6. $2,039\frac{1}{2}$ | 10. $13\frac{11}{12}$ | 14. $18\frac{1}{2}$ |
| 3. $5\frac{1}{3}$ | 7. $31\frac{1}{8}$ | 11. $9\frac{3}{7}$ | 15. $2\frac{3}{4}$ cups |
| 4. $6\frac{1}{3}$ | 8. 888,930 | 12. $10\frac{2}{3}$ | 16. $\frac{5}{8}$ pie |

Lesson 16

Skills Check

- | | | | |
|--------------------|-------|------------------------|---------------|
| 1. 1,733,743 | 4. 15 | 7. \$5,580 | 10. 75 people |
| 2. $21\frac{1}{2}$ | 5. 16 | 8. \$480 | |
| 3. $5\frac{1}{12}$ | 6. 8 | 9. $2\frac{1}{4}$ cups | |

New Skills Practice

- | | | |
|-----------|----------|----------|
| 1. 3.917 | 8. 94.35 | 15. 1.68 |
| 2. 7.937 | 9. 1.589 | 16. 40 |
| 3. 0.9564 | 10. 8.79 | 17. 50 |
| 4. 0.8693 | 11. 23.6 | 18. 120 |
| 5. 7.832 | 12. 3.45 | 19. 24 |
| 6. 0.043 | 13. 12.7 | 20. 35 |
| 7. 0.3594 | 14. 8.52 | 21. 50 |

Lesson 16 Test

- | | | | |
|------------|----------|-----------|-----------------|
| 1. 185 | 5. 4.604 | 9. 0.005 | 13. \$14,747.04 |
| 2. 219.06 | 6. 6 | 10. 2 | 14. 12.9 miles |
| 3. 9.681 | 7. 2.64 | 11. 1.346 | 15. 60.12 km |
| 4. 670.662 | 8. 52.5 | 12. 5.782 | 16. \$14.61 |

Lesson 17

Lesson 17 Test

- | | | | |
|------------|------------|-----------|----------|
| 1. 44.5032 | 6. 1.4 | 11. 3.487 | 16. 6.62 |
| 2. 3.06 | 7. 0.06 | 12. 29.07 | 17. 9.41 |
| 3. 2.62605 | 8. 0.007 | 13. 9.61 | 18. 7.42 |
| 4. 3.8 | 9. 0.16 | 14. 5.49 | |
| 5. 3.21 | 10. 0.1692 | 15. 30.8 | |

Lesson 21 Test

- | | | | |
|------------|------------|-------------------|-------------------|
| 1. 12.3 | 5. 15 | 9. $1\frac{1}{2}$ | 13. \$1,400 |
| 2. 4.32 | 6. 4 | 10. .002 | 14. $\frac{1}{6}$ |
| 3. 18.184 | 7. 1,128.4 | 11. 1.64 | 15. $\frac{1}{3}$ |
| 4. 1,010.8 | 8. 16.79 | 12. 143.2 | 16. 10% |

Lesson 22**Lesson 22 Test**

- | | | |
|----------|--|-------------------|
| 1. 5% | 8. \$50 | 14. 20% |
| 2. .15 | 9. \$85 | 15. $\frac{3}{4}$ |
| 3. 36% | 10. 60% | 16. 20.24 |
| 4. .375 | 11. 25% | 17. 3.095 |
| 5. .75 | 12. a. \$3.37
b. \$78.32
c. \$1.68 | 18. .072 |
| 6. 32.5% | | 19. 14 |
| 7. 90% | 13. 12 children | 20. .134 |

Lesson 23**Skills Check**

- | | | |
|-----------|-----------|---------|
| 1. 926.48 | 4. 69.370 | 7. .006 |
| 2. 7 | 5. .813 | |
| 3. 21.5 | 6. 175 | |

New Skills Practice

- | | | |
|-----------|--------|-----------------|
| 1. 64 | 8. 5 | 15. 6 |
| 2. 5.76 | 9. 9 | 16. 4 |
| 3. 82.81 | 10. 2 | 17. 8 |
| 4. 900 | 11. 7 | 18. 5 billion |
| 5. 10,000 | 12. 1 | 19. 80 thousand |
| 6. 2.25 | 13. 10 | 20. 1 trillion |
| 7. 32.49 | 14. 3 | 21. 4 |
22. Eighty-six million, three hundred ninety-four thousand, eight hundred seventy-two
23. Two billion, nine hundred eighteen million, six thousand, two hundred forty-one
24. Five trillion, five hundred billion, two hundred eighty-seven million, four hundred four thousand, three hundred twelve.
- | | | |
|-----------------------|-------------------|----------------|
| 25. 9,200,096,329,601 | 26. 5,100,600,300 | 27. 24,305,518 |
|-----------------------|-------------------|----------------|
28. 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47

Lesson 23 Test

- | | | | |
|-----------|------------------|------------|-------------------|
| 1. 16.355 | 5. 12.24 | 9. 111.192 | 13. 2 miles |
| 2. 2.72 | 6. 23.088 | 10. 20.604 | 14. $\frac{3}{4}$ |
| 3. .095 | 7. $\frac{3}{5}$ | 11. 6.29 | 15. $\frac{1}{4}$ |
| 4. 6 | 8. 30 | 12. 15.2 | 16. 80% |

Lesson 24**Skills Check**

- | | | |
|-------------------|--------------------|------------------|
| 1. $\frac{4}{15}$ | 3. $\frac{13}{24}$ | 5. $\frac{1}{4}$ |
| 2. 1,908,375 | 4. $\frac{9}{10}$ | 6. 346 |

Extra Practice Worksheets

Lesson 1

Multiplication

- | | | |
|----------|----------|-----------|
| 1. 4,116 | 5. 4,200 | 9. 120 |
| 2. 477 | 6. 7,954 | 10. 114 |
| 3. 1,863 | 7. 884 | 11. 1,200 |
| 4. 360 | 8. 108 | 12. 3,150 |

Multiplication with Large Numbers

- | | | |
|------------|------------|--------------|
| 1. 183,762 | 4. 880,526 | 7. 53,900 |
| 2. 8,530 | 5. 414,036 | 8. 90,447 |
| 3. 831,285 | 6. 572,130 | 9. 2,000,325 |

Division

- | | | |
|--------|--------|--------|
| 1. 413 | 4. 18 | 7. 352 |
| 2. 12 | 5. 115 | 8. 224 |
| 3. 132 | 6. 101 | 9. 15 |

Division with Remainders

- | | | |
|---------------------|--------|---------------------|
| 1. $235\frac{2}{3}$ | 4. 141 | 7. $124\frac{3}{4}$ |
| 2. $237\frac{2}{4}$ | 5. 316 | 8. $155\frac{2}{3}$ |
| 3. $91\frac{4}{5}$ | 6. 45 | 9. $117\frac{1}{6}$ |

Lesson 2

Division with Two-Digit Divisors

- | | | |
|----------------------|----------------------|----------------------|
| 1. 17 | 4. $34\frac{1}{10}$ | 7. $11\frac{9}{40}$ |
| 2. $16\frac{28}{30}$ | 5. $18\frac{21}{30}$ | 8. $14\frac{1}{70}$ |
| 3. $14\frac{51}{60}$ | 6. $11\frac{45}{50}$ | 9. $16\frac{18}{40}$ |