

Quick Review Skills Workbook

Course 3

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Multiplying Decimals by Whole Numbers**Find each product.**

1. $\begin{array}{r} 267 \\ \times 2.5 \\ \hline \end{array}$	2. $\begin{array}{r} 54 \\ \times 6.8 \\ \hline \end{array}$	3. $\begin{array}{r} 561 \\ \times 0.9 \\ \hline \end{array}$
4. $\begin{array}{r} 424.9 \\ \times 327 \\ \hline \end{array}$	5. $\begin{array}{r} 267 \\ \times 0.6 \\ \hline \end{array}$	6. $5.7 \times 2,648$
7. $\begin{array}{r} 3,588 \\ \times 1.74 \\ \hline \end{array}$	8. $\begin{array}{r} 762 \\ \times 5.62 \\ \hline \end{array}$	9. 63×3.547
10. $5,724 \times 42.8$	11. $\begin{array}{r} 64.85 \\ \times 23 \\ \hline \end{array}$	12. $\begin{array}{r} 2,546 \\ \times 2.5 \\ \hline \end{array}$
13. $\begin{array}{r} 74.59 \\ \times 38 \\ \hline \end{array}$	14. $\begin{array}{r} 455 \\ \times 12.6 \\ \hline \end{array}$	15. $\begin{array}{r} 591 \\ \times 7.9 \\ \hline \end{array}$

Multiplying Decimals by Whole Numbers**Find each product.**

1. $\begin{array}{r} 691 \\ \times 1.03 \\ \hline \end{array}$	2. $\begin{array}{r} 9,350 \\ \times \$0.25 \\ \hline \end{array}$	3. 893×90.98
4. $\begin{array}{r} 359 \\ \times 6.52 \\ \hline \end{array}$	5. $\begin{array}{r} 791.36 \\ \times 340 \\ \hline \end{array}$	6. $\begin{array}{r} 89 \\ \times 0.97 \\ \hline \end{array}$
7. $\begin{array}{r} 8,935 \\ \times 6.96 \\ \hline \end{array}$	8. 697×69.19	9. 791.36×106
10. $\begin{array}{r} 5,918 \\ \times 2.85 \\ \hline \end{array}$	11. $2.5 \times 9,530$	12. $\begin{array}{r} 859.2 \\ \times 33 \\ \hline \end{array}$

Solve.

13. Molly bought 15 keychains for her friends for \$2.67 each. How much did she spend altogether?	14. Nathaniel has \$45.75. He wants to buy some model cars that cost \$5.48 a piece. Does he have enough money to buy 8 cars? Explain.
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Dividing Decimals by Whole Numbers**Find each quotient. Round to the nearest hundredth if necessary.**

1. $7 \overline{)66.15}$	2. $14 \overline{)79.38}$	3. $37 \overline{)498.76}$
4. $18 \overline{)6.426}$	5. $697.421 \div 54$	6. $0.71 \div 7$
7. $10.69 \div 9$	8. $90 \overline{)1,306.36}$	9. $34 \overline{)7,630.59}$
10. $61.98 \div 8$	11. $6,210.63 \div 12$	12. $22 \overline{)959.64}$
13. $4 \overline{)195.64}$	14. $62.27 \div 6$	15. $28 \overline{)439.614}$

Dividing Decimals by Whole Numbers

Find each quotient. Round to the nearest hundredth if necessary.

1. $14 \overline{)359.38}$	2. $8 \overline{)1,314.56}$	3. $46 \overline{)385.94}$
4. $9.87 \div 3$	5. $62.02 \div 14$	6. $24 \overline{)5,949.84}$
7. $37 \overline{)6,135.71}$	8. $77.76 \div 4$	9. $3,109.65 \div 15$

Solve.

10. Mr. Richards spent \$59.70 on pizzas for a class pizza party. If he bought 6 pizzas and each cost the same amount, how much did each pizza cost?	11. The price for five friends to visit a museum was \$46.25. What was the cost for each ticket?
12. It took Kendra 12 minutes to ride her bike 3.25 miles. If she rode at an average rate, how long did it take her to travel one mile?	13. Mrs. Blackwell has \$33.40 to split evenly between her four children for their allowance. How much will each child receive?

Multiplying and Dividing Decimals by Whole Numbers

Find each product or quotient.

1. $\begin{array}{r} 425 \\ \times 3.7 \\ \hline \end{array}$	2. $9 \overline{)62.01}$	3. $\begin{array}{r} 20.76 \\ \times 82 \\ \hline \end{array}$
4. $18 \overline{)386.1}$	5. $\begin{array}{r} 362.54 \\ \times 21 \\ \hline \end{array}$	6. $27 \overline{)1,263.6}$
7. $\begin{array}{r} 4,210 \\ \times 2.61 \\ \hline \end{array}$	8. $19 \overline{)11.97}$	9. $\begin{array}{r} 176 \\ \times 4.72 \\ \hline \end{array}$
10. $36 \overline{)5,579.28}$	11. $\begin{array}{r} 79.61 \\ \times 49 \\ \hline \end{array}$	12. $15 \overline{)937.65}$
13. $\begin{array}{r} 123.47 \\ \times 15 \\ \hline \end{array}$	14. $39 \overline{)12.48}$	15. $\begin{array}{r} 2.367 \\ \times 29 \\ \hline \end{array}$

Multiplying and Dividing Decimals by Whole Numbers

Find each product or quotient.

1. $\begin{array}{r} 716 \\ \times 2.15 \\ \hline \end{array}$	2. $3 \overline{)17.04}$	3. $\begin{array}{r} 2.69 \\ \times 14 \\ \hline \end{array}$
4. $19 \overline{)987.43}$	5. $\begin{array}{r} 64 \\ \times 4.67 \\ \hline \end{array}$	6. $41 \overline{)522.75}$
7. $\begin{array}{r} 1,654 \\ \times 2.7 \\ \hline \end{array}$	8. $15 \overline{)0.75}$	9. $\begin{array}{r} 16.84 \\ \times 31 \\ \hline \end{array}$
10. $27 \overline{)4,121.28}$	11. $\begin{array}{r} 641 \\ \times 9.35 \\ \hline \end{array}$	12. $61 \overline{)599.02}$

Solve.

13. Mr. Yi traveled 385.6 miles on 15 gallons of gasoline. How many miles did he travel per gallon of gasoline? Round to the nearest hundredth.	14. Sonya uses 8.56 pounds of flour to make a dessert that serves 17 people. How much flour is needed per serving? Round to the nearest hundredth.
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Multiplying Decimals**Find each product.**

1. $\begin{array}{r} 2.5 \\ \times 13 \\ \hline \end{array}$	2. $\begin{array}{r} 6.9 \\ \times 53 \\ \hline \end{array}$	3. $\begin{array}{r} 46.8 \\ \times 5.2 \\ \hline \end{array}$
4. $\begin{array}{r} 164 \\ \times 8.8 \\ \hline \end{array}$	5. $\begin{array}{r} 9.1 \\ \times 5.3 \\ \hline \end{array}$	6. $\begin{array}{r} 922.2 \\ \times 0.4 \\ \hline \end{array}$
7. 8.2×5.9	8. 20.7×11.4	9. 33.2×9.2
10. 15.1×12	11. 4.8×6.5	12. 16.6×0.6

Solve.

13. Katie worked 40.5 hours this week. She makes \$8 per hour. How much money did she earn this week?	14. To build an addition for his house, Mr. Toshio needs 18 sections of paneling that are each 7.5 feet long. How many total feet of paneling does Mr. Toshio need?	15. Over the course of five months, Olivia noticed an average of 2.5 inches of rainfall per month. How much total rainfall did she observe over the five-month period?
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NAME _____ DATE _____ PERIOD _____

Multiplying Decimals**Find each product.**

1. $\begin{array}{r} 7.19 \\ \times 3.09 \\ \hline \end{array}$	2. $\begin{array}{r} \$56.24 \\ \times 12 \\ \hline \end{array}$	3. $\begin{array}{r} 80.4 \\ \times 2.34 \\ \hline \end{array}$
4. $\begin{array}{r} \$10.16 \\ \times 1.25 \\ \hline \end{array}$	5. $\begin{array}{r} 4.81 \\ \times 7.85 \\ \hline \end{array}$	6. $\begin{array}{r} 9.03 \\ \times 3.2 \\ \hline \end{array}$
7. $\$11.75 \times 16$	8. 49.76×5.11	9. 237.02×8.3
10. 3.15×2.7	11. 1.76×5.13	12. 12.25×1.28

Solve.

13. The costume designer for a drill team needs 3.25 yards of fabric to make one uniform. How much fabric is necessary if 44 uniforms are needed for the team?	14. Khalid purchased five 12-packs of soda that cost \$3.59 each. How much did Khalid spend on soda?	15. At her job, Annie earns \$9.50 per hour. If Annie worked 32.5 hours last week, how much money did she earn?
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Dividing Decimals**Find each quotient.**

1. $0.3 \overline{)2.01}$	2. $0.04 \overline{)0.92}$	3. $0.7 \overline{)2.45}$
4. $0.63 \overline{)756}$	5. $4.6 \overline{)\$115}$	6. $8.1 \overline{)132.03}$
7. $0.26 \overline{)111.02}$	8. $4.7 \overline{)433.81}$	9. $0.68 \overline{)44.2}$
10. $\$25.62 \div 0.84$	11. $40.05 \div 4.5$	12. $100.8 \div 3.6$

Solve.

13. Marta ran a total of 6.25 miles on a 0.25-mile track. How many laps did Marta run?	14. Before taxes, Drew's pay was \$173.25. If he earns \$8.25 per hour, how many hours did Drew work?	15. A 20.5-ounce bottle of s shampoo costs \$4.51. What is the price per ounce?
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Dividing Decimals**Find each quotient.**

1. $0.3 \overline{) \$30.66}$	2. $16.7 \overline{) 136.94}$	3. $12.3 \overline{) 100.86}$
4. $1.25 \overline{) 32.5}$	5. $13.1 \overline{) 1,126.6}$	6. $5.1 \overline{) 113.73}$
7. $2.04 \overline{) 153}$	8. $3.2 \overline{) 28.16}$	9. $6.7 \overline{) 69.01}$
10. $34.32 \div 0.12$	11. $84.64 \div 0.92$	12. $209.33 \div 17.3$

Solve.

13. Mrs. Rollins paid a total of \$11.25 for lunch meat that was priced at \$4.50 per pound. How many pounds of lunch meat did she buy?	14. Sofia earned \$255.75 on her last paycheck. If she worked 15.5 hours, what is Sofia's hourly wage?	15. Which is a better bargain: a 22.5-ounce box of cereal that costs \$3.60 or a 14.5-ounce box of the same cereal that costs \$2.90?
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Multiplying and Dividing Decimals**Find each product or quotient.**

1. $\begin{array}{r} 6.72 \\ \times 4.3 \\ \hline \end{array}$	2. $1.85 \overline{)46.25}$	3. $\begin{array}{r} 100.22 \\ \times 0.34 \\ \hline \end{array}$
4. $2.65 \overline{)3.71}$	5. $\begin{array}{r} 51.07 \\ \times 12.8 \\ \hline \end{array}$	6. $0.24 \overline{)11.28}$
7. $\begin{array}{r} 8.08 \\ \times 6.3 \\ \hline \end{array}$	8. $1.5 \overline{)54.75}$	9. $\begin{array}{r} \$11.34 \\ \times 10.5 \\ \hline \end{array}$
10. $2.2 \overline{)35.42}$	11. $\begin{array}{r} 112.6 \\ \times 7.07 \\ \hline \end{array}$	12. $9.5 \overline{)24.13}$

Solve.

13. Ramon drove at 37.5 miles per hour for 1.5 hours. How far did he drive?	14. For a school fund-raiser, each person in Mr. Singh's class walked 5.25 miles. The whole class walked a total of 126 miles. How many people are in Mr. Singh's class?	15. Candy bought from the bulk food section costs \$3.30 per pound. Sarah wants 2.5 pounds of candy. How much will she have to pay?
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Multiplying and Dividing Decimals**Find each product or quotient.**

1. $\begin{array}{r} 2.02 \\ \times 1.04 \\ \hline \end{array}$	2. $4.2 \overline{)375.06}$	3. $\begin{array}{r} 7.43 \\ \times 3.49 \\ \hline \end{array}$
4. $0.09 \overline{)10.89}$	5. 89.6×8.37	6. $18.75 \div 0.75$
7. $\begin{array}{r} 219.22 \\ \times 0.7 \\ \hline \end{array}$	8. $74.62 \div 1.4$	9. 40.25×12.8
10. $0.16 \overline{)6.64}$	11. 17.7×6.48	12. $81.84 \div 0.22$

Solve.

13. A carwash charges \$3.75 per wash. If the carwash made \$315 in one day, how many cars were washed?	14. In a survey, 2.25 times as many students preferred pizza to hot dogs. If 44 students preferred hot dogs, how many preferred pizza?	15. California has 7.25 times as many counties as Connecticut. If California has 58 counties, how many counties are in Connecticut?
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7

NAME _____ DATE _____ PERIOD _____

Operations with Decimals**Find each sum, difference, product, or quotient.**

1. $\begin{array}{r} 514.67 \\ + 122.8 \\ \hline \end{array}$	2. $\begin{array}{r} 13.92 \\ \times 52 \\ \hline \end{array}$	3. $\begin{array}{r} 74.07 \\ - 12.68 \\ \hline \end{array}$
4. $0.84 \overline{)27.3}$	5. $\begin{array}{r} 375.8 \\ - 22.96 \\ \hline \end{array}$	6. $\begin{array}{r} 108.47 \\ + 16.6 \\ \hline \end{array}$
7. $\begin{array}{r} 98.09 \\ \times 4.8 \\ \hline \end{array}$	8. $56.03 - 22.75$	9. $3.5 \overline{)78.4}$
10. $\begin{array}{r} 94.45 \\ + 7.75 \\ \hline \end{array}$	11. $126.18 \div 3.6$	12. 62.93×8.6
13. $64.71 - 25.82$	14. $2.56 \overline{)3.2}$	15. $46.8 + 7.91$

Operations with Decimals

Find each sum, difference, product, or quotient.

1. $\begin{array}{r} 17.08 \\ \times 5.4 \\ \hline \end{array}$	2. $\begin{array}{r} 346.72 \\ - 106.8 \\ \hline \end{array}$	3. $7.5 \overline{)8.46}$
4. $\begin{array}{r} 82.65 \\ + 47.83 \\ \hline \end{array}$	5. $608.2 - 59.34$	6. $\begin{array}{r} 1,903.05 \\ + 432.98 \\ \hline \end{array}$
7. $44.1 \div 9.8$	8. $\begin{array}{r} 16.62 \\ \times 0.8 \\ \hline \end{array}$	9. $307.09 + 45.6$
10. $\begin{array}{r} 845.2 \\ - 6.78 \\ \hline \end{array}$	11. $5.12 \overline{)16.64}$	12. 61.6×22.01
13. $\begin{array}{r} 407.3 \\ - 186.94 \\ \hline \end{array}$	14. $\begin{array}{r} 31.25 \\ \times 0.44 \\ \hline \end{array}$	15. $743.59 + 88.8$

8

Terminating and Repeating Decimals

Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

1. $\frac{16}{20}$	2. $\frac{30}{120}$	3. $1\frac{7}{8}$
4. $\frac{1}{6}$	5. $\frac{11}{40}$	6. $5\frac{13}{50}$
7. $\frac{55}{300}$	8. $1\frac{1}{2}$	9. $\frac{5}{9}$

Write each decimal as a fraction or mixed number in simplest form.

10. 0.26	11. 0.75	12. $0.\overline{8}$
13. 0.1	14. 4.48	15. $1.\overline{5}$
16. 9.8	17. $3.\overline{25}$	18. 0.81

8

Terminating and Repeating Decimals

Write each fraction or mixed number as a decimal. Use bar notation if the decimal is a repeating decimal.

1. $\frac{2}{5}$	2. $\frac{4}{9}$	3. $7\frac{5}{8}$
4. $\frac{7}{6}$	5. $\frac{17}{40}$	6. $5\frac{1}{3}$
7. $\frac{9}{11}$	8. $3\frac{4}{5}$	9. $\frac{18}{20}$

Write each decimal as a fraction or mixed number in simplest form.

10. 0.55	11. $0.\overline{6}$	12. 0.34
13. $1.\overline{67}$	14. 3.75	15. 0.48
16. 6.4	17. 0.125	18. $2.\overline{7}$

Adding Fractions with Like Denominators**Add. Write each sum in simplest form.**

1. $\frac{3}{5} + \frac{1}{5}$	2. $\frac{4}{6} + \frac{1}{6}$	3. $\frac{7}{12} + \frac{3}{12}$
4. $\frac{4}{9} + \frac{2}{9}$	5. $\frac{6}{15} + \frac{7}{15}$	6. $\frac{5}{8} + \frac{1}{8}$
7. $\frac{5}{20} + \frac{7}{20}$	8. $\frac{4}{8} + \frac{3}{8}$	9. $\frac{6}{13} + \frac{7}{13}$
10. $\frac{2}{6} + \frac{2}{6}$	11. $\frac{6}{11} + \frac{3}{11}$	12. $\frac{2}{10} + \frac{6}{10}$
13. $\frac{10}{25} + \frac{5}{25}$	14. $\frac{1}{3} + \frac{1}{3}$	15. $\frac{2}{15} + \frac{7}{15}$

Adding Fractions with Like Denominators**Add. Write each sum in simplest form.**

1. $\frac{5}{8} + \frac{2}{8}$	2. $\frac{2}{12} + \frac{6}{12}$	3. $\frac{3}{14} + \frac{5}{14}$
4. $\frac{5}{16} + \frac{9}{16}$	5. $\frac{1}{6} + \frac{5}{6}$	6. $\frac{4}{9} + \frac{3}{9}$
7. $\frac{1}{5} + \frac{3}{5}$	8. $\frac{8}{20} + \frac{6}{20}$	9. $\frac{5}{16} + \frac{3}{16}$
10. $\frac{16}{25} + \frac{8}{25}$	11. $\frac{3}{10} + \frac{4}{10}$	12. $\frac{15}{27} + \frac{7}{27}$
13. $\frac{1}{36} + \frac{5}{36}$	14. $\frac{8}{40} + \frac{12}{40}$	15. $\frac{7}{15} + \frac{5}{15}$

Subtracting Fractions with Like Denominators**Subtract. Write each difference in simplest form.**

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

Subtracting Fractions with Like Denominators**Subtract. Write each difference in simplest form.**

1. $\frac{9}{11} - \frac{3}{11}$	2. $\frac{7}{8} - \frac{3}{8}$	3. $\frac{2}{9} - \frac{1}{9}$
4. $\frac{5}{6} - \frac{3}{6}$	5. $\frac{12}{40} - \frac{8}{40}$	6. $\frac{7}{15} - \frac{4}{15}$
7. $\frac{8}{12} - \frac{6}{12}$	8. $\frac{6}{13} - \frac{2}{13}$	9. $\frac{7}{12} - \frac{3}{12}$
10. $\frac{6}{10} - \frac{2}{10}$	11. $\frac{15}{30} - \frac{10}{30}$	12. $\frac{16}{24} - \frac{7}{24}$
13. $\frac{5}{6} - \frac{1}{6}$	14. $\frac{20}{25} - \frac{15}{25}$	15. $\frac{7}{9} - \frac{5}{9}$

Adding and Subtracting Fractions with Like Denominators

Add or subtract. Write each sum or difference in simplest form.

1. $\frac{2}{9} + \frac{5}{9}$	2. $\frac{1}{10} + \frac{7}{10}$	3. $\frac{7}{20} + \frac{9}{20}$
4. $\frac{7}{9} - \frac{4}{9}$	5. $\frac{11}{12} - \frac{7}{12}$	6. $\frac{4}{15} - \frac{1}{15}$
7. $\frac{5}{16} + \frac{3}{16}$	8. $\frac{9}{11} - \frac{4}{11}$	9. $\frac{7}{8} - \frac{5}{8}$
10. $\frac{11}{16} + \frac{1}{16}$	11. $\frac{7}{20} - \frac{3}{20}$	12. $\frac{13}{25} + \frac{7}{25}$
13. $\frac{33}{50} + \frac{17}{50}$	14. $\frac{23}{36} - \frac{5}{36}$	15. $\frac{25}{39} - \frac{22}{39}$

Adding and Subtracting Fractions with Like Denominators

Add or subtract. Write each sum or difference in simplest form.

1. $\frac{8}{11} - \frac{5}{11}$	2. $\frac{14}{15} - \frac{11}{15}$	3. $\frac{13}{20} + \frac{3}{20}$
4. $\frac{23}{30} - \frac{17}{30}$	5. $\frac{5}{24} + \frac{13}{24}$	6. $\frac{9}{16} - \frac{7}{16}$
7. $\frac{17}{18} - \frac{5}{18}$	8. $\frac{4}{11} + \frac{6}{11}$	9. $\frac{25}{36} + \frac{11}{36}$
10. $\frac{33}{35} - \frac{19}{35}$	11. $\frac{31}{49} + \frac{4}{49}$	12. $\frac{15}{32} - \frac{7}{32}$
13. $\frac{13}{42} + \frac{17}{42}$	14. $\frac{28}{45} - \frac{8}{45}$	15. $\frac{23}{75} + \frac{22}{75}$

Adding and Subtracting Fractions with Unlike Denominators

Add or subtract. Write the sum or difference in simplest form.

1. $\begin{array}{r} \frac{1}{5} \\ + \frac{3}{4} \\ \hline \end{array}$	2. $\begin{array}{r} \frac{5}{6} \\ - \frac{7}{12} \\ \hline \end{array}$	3. $\begin{array}{r} \frac{3}{8} \\ + \frac{11}{24} \\ \hline \end{array}$
4. $\begin{array}{r} \frac{7}{9} \\ - \frac{11}{36} \\ \hline \end{array}$	5. $\begin{array}{r} \frac{7}{10} \\ + \frac{1}{4} \\ \hline \end{array}$	6. $\begin{array}{r} \frac{5}{16} \\ + \frac{1}{2} \\ \hline \end{array}$
7. $\begin{array}{r} \frac{3}{5} \\ - \frac{1}{3} \\ \hline \end{array}$	8. $\begin{array}{r} \frac{13}{30} \\ - \frac{4}{15} \\ \hline \end{array}$	9. $\begin{array}{r} \frac{5}{12} \\ + \frac{1}{4} \\ \hline \end{array}$
10. $\begin{array}{r} \frac{9}{20} \\ + \frac{1}{4} \\ \hline \end{array}$	11. $\begin{array}{r} \frac{16}{21} \\ - \frac{5}{7} \\ \hline \end{array}$	12. $\begin{array}{r} \frac{7}{9} \\ - \frac{1}{6} \\ \hline \end{array}$
13. $\begin{array}{r} \frac{11}{15} \\ - \frac{5}{12} \\ \hline \end{array}$	14. $\begin{array}{r} \frac{8}{17} \\ - \frac{15}{68} \\ \hline \end{array}$	15. $\begin{array}{r} \frac{16}{25} \\ - \frac{39}{100} \\ \hline \end{array}$

Adding and Subtracting Fractions with Unlike Denominators

Add or subtract. Write the sum or difference in simplest form.

1. $\begin{array}{r} \frac{4}{9} \\ + \frac{1}{3} \\ \hline \end{array}$	2. $\begin{array}{r} \frac{3}{5} \\ - \frac{11}{30} \\ \hline \end{array}$	3. $\begin{array}{r} \frac{19}{36} \\ + \frac{4}{9} \\ \hline \end{array}$
4. $\begin{array}{r} \frac{18}{25} \\ - \frac{11}{50} \\ \hline \end{array}$	5. $\begin{array}{r} \frac{4}{15} \\ + \frac{5}{9} \\ \hline \end{array}$	6. $\begin{array}{r} \frac{7}{10} \\ - \frac{22}{35} \\ \hline \end{array}$
7. $\begin{array}{r} \frac{5}{8} \\ + \frac{7}{40} \\ \hline \end{array}$	8. $\begin{array}{r} \frac{4}{5} \\ - \frac{5}{8} \\ \hline \end{array}$	9. $\begin{array}{r} \frac{19}{20} \\ - \frac{31}{100} \\ \hline \end{array}$
10. $\begin{array}{r} \frac{1}{5} \\ + \frac{2}{3} \\ \hline \end{array}$	11. $\begin{array}{r} \frac{13}{25} \\ - \frac{1}{2} \\ \hline \end{array}$	12. $\begin{array}{r} \frac{7}{12} \\ + \frac{6}{25} \\ \hline \end{array}$
13. $\begin{array}{r} \frac{13}{14} \\ - \frac{5}{12} \\ \hline \end{array}$	14. $\begin{array}{r} \frac{37}{40} \\ - \frac{2}{9} \\ \hline \end{array}$	15. $\begin{array}{r} \frac{17}{22} \\ + \frac{8}{55} \\ \hline \end{array}$

Mixed Numbers and Improper Fractions**Write each improper fraction as a mixed number.**

1. $\frac{13}{4}$	2. $\frac{26}{5}$	3. $\frac{8}{3}$
4. $\frac{49}{9}$	5. $\frac{11}{2}$	6. $\frac{38}{7}$
7. $\frac{43}{10}$	8. $\frac{16}{3}$	9. $\frac{29}{4}$
10. $\frac{109}{8}$	11. $\frac{73}{11}$	12. $\frac{84}{5}$
13. $\frac{237}{7}$	14. $\frac{199}{6}$	15. $\frac{212}{9}$

Mixed Numbers and Improper Fractions**Write each mixed number as an improper fraction.**

1. $6\frac{1}{4}$	2. $3\frac{7}{8}$	3. $5\frac{3}{4}$
4. $7\frac{1}{6}$	5. $9\frac{4}{9}$	6. $2\frac{9}{16}$
7. $6\frac{7}{10}$	8. $4\frac{2}{11}$	9. $8\frac{5}{7}$
10. $14\frac{2}{3}$	11. $9\frac{9}{13}$	12. $11\frac{1}{2}$
13. $6\frac{19}{20}$	14. $32\frac{17}{25}$	15. $14\frac{8}{13}$

Adding and Subtracting Mixed Numbers**Add or subtract. Write each sum or difference in simplest form.**

1. 6 $- 3\frac{1}{6}$ <hr/>	2. $4\frac{5}{6}$ $+ 5\frac{1}{4}$ <hr/>	3. $18\frac{3}{8}$ $- 12\frac{3}{4}$ <hr/>
4. $15\frac{1}{2}$ $+ 9\frac{2}{5}$ <hr/>	5. $11\frac{7}{24}$ $- 6$ <hr/>	6. $41\frac{7}{18}$ $- 32\frac{1}{2}$ <hr/>
7. $22\frac{13}{30}$ $+ 14\frac{5}{6}$ <hr/>	8. $16\frac{2}{7}$ $- 9\frac{11}{14}$ <hr/>	9. $53\frac{7}{10}$ $+ 29\frac{3}{8}$ <hr/>
10. $13\frac{4}{15}$ $- 10\frac{3}{5}$ <hr/>	11. $9\frac{23}{84}$ $+ 8\frac{4}{7}$ <hr/>	12. $42\frac{5}{8}$ $- 19\frac{11}{12}$ <hr/>
13. $27\frac{9}{10}$ $- 18\frac{29}{30}$ <hr/>	14. $122\frac{4}{25}$ $+ 82\frac{4}{5}$ <hr/>	15. $51\frac{7}{20}$ $- 17\frac{17}{20}$ <hr/>

Adding and Subtracting Mixed Numbers

Add or subtract. Write each sum or difference in simplest form.

1. $\begin{array}{r} 5\frac{5}{6} \\ + 2\frac{1}{3} \\ \hline \end{array}$	2. $\begin{array}{r} 6\frac{1}{8} \\ - 5\frac{4}{5} \\ \hline \end{array}$	3. $\begin{array}{r} 14\frac{31}{50} \\ + 12\frac{7}{10} \\ \hline \end{array}$
4. $\begin{array}{r} 6\frac{6}{7} \\ - 4\frac{25}{28} \\ \hline \end{array}$	5. $\begin{array}{r} 28\frac{8}{9} \\ + 10\frac{3}{7} \\ \hline \end{array}$	6. $\begin{array}{r} 609\frac{11}{15} \\ - 253\frac{9}{10} \\ \hline \end{array}$
7. $\begin{array}{r} 56\frac{19}{20} \\ + 34\frac{5}{6} \\ \hline \end{array}$	8. $\begin{array}{r} 42\frac{37}{50} \\ - 25\frac{17}{20} \\ \hline \end{array}$	9. $\begin{array}{r} 19\frac{1}{9} \\ + 23\frac{5}{6} \\ \hline \end{array}$
10. $\begin{array}{r} 77\frac{1}{2} \\ - 62\frac{4}{11} \\ \hline \end{array}$	11. $\begin{array}{r} 108\frac{15}{16} \\ + 72\frac{5}{24} \\ \hline \end{array}$	12. $\begin{array}{r} 30\frac{5}{32} \\ - 21\frac{5}{12} \\ \hline \end{array}$
13. $\begin{array}{r} 4\frac{7}{20} \\ + 2\frac{2}{5} \\ \hline \end{array}$	14. $\begin{array}{r} 37\frac{2}{3} \\ - 29\frac{13}{15} \\ \hline \end{array}$	15. $\begin{array}{r} 224\frac{5}{12} \\ + 512\frac{15}{16} \\ \hline \end{array}$

Multiplying Fractions and Mixed Numbers**Multiply. Write each product in simplest form.**

1. $\frac{4}{5} \times \frac{15}{16}$

2. $5\frac{3}{7} \times 14$

3. $\frac{7}{18} \times \frac{27}{49}$

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

5. $\frac{9}{11} \times 3\frac{1}{18}$

6. $\frac{24}{25} \times 3\frac{1}{8}$

7. $7\frac{1}{2} \times 3\frac{3}{5}$

8. $2\frac{7}{10} \times 2\frac{1}{12}$

9. $6\frac{6}{7} \times \frac{21}{64}$

10. $4\frac{3}{8} \times 4\frac{4}{7}$

Multiplying Fractions and Mixed Numbers**Multiply. Write each product in simplest form.**

1. $\frac{21}{40} \times 1\frac{19}{21}$

2. $\frac{45}{64} \times 5\frac{1}{3}$

3. $12\frac{1}{2} \times \frac{5}{16}$

4. $4\frac{1}{3} \times \frac{9}{52}$

5. $8\frac{5}{8} \times \frac{40}{63}$

6. $\frac{18}{25} \times \frac{100}{117}$

7. $23\frac{1}{3} \times \frac{9}{28}$

8. $4\frac{2}{13} \times \frac{26}{27}$

9. $5\frac{9}{11} \times 1\frac{1}{32}$

10. $7\frac{1}{5} \times 8\frac{1}{3}$

Dividing Fractions and Mixed Numbers**Divide. Write each quotient in simplest form.**

1. $1\frac{4}{5} \div \frac{3}{5}$

2. $8\frac{2}{5} \div 3\frac{1}{2}$

3. $\frac{8}{9} \div 4$

4. $2\frac{4}{5} \div \frac{7}{15}$

5. $\frac{5}{18} \div \frac{25}{36}$

6. $10\frac{5}{7} \div 1\frac{1}{14}$

7. $9 \div \frac{3}{8}$

8. $\frac{16}{65} \div \frac{2}{13}$

9. $9\frac{9}{11} \div 1\frac{8}{55}$

10. $3\frac{11}{23} \div 1\frac{31}{69}$

Dividing Fractions and Mixed Numbers**Divide. Write each quotient in simplest form.**

1. $\frac{8}{35} \div \frac{16}{49}$	2. $7\frac{1}{5} \div \frac{9}{10}$
3. $2\frac{2}{3} \div 2\frac{2}{15}$	4. $6\frac{1}{4} \div 5$
5. $6\frac{4}{7} \div 1\frac{9}{14}$	6. $9\frac{3}{4} \div 6\frac{1}{2}$
7. $\frac{23}{24} \div \frac{3}{8}$	8. $4\frac{5}{7} \div 1\frac{25}{63}$
9. $4\frac{4}{15} \div \frac{16}{75}$	10. $14\frac{2}{9} \div 10\frac{2}{3}$

Operations with Fractions and Mixed Numbers**Add, subtract, multiply, or divide. Write each answer in simplest form.**

1. $\frac{3}{4} + \frac{21}{100}$	2. $6\frac{3}{4} \times 5\frac{1}{3}$	3. $4\frac{5}{18} - 3\frac{1}{3}$
4. $7\frac{1}{2} \div \frac{6}{25}$	5. $13\frac{6}{7} - \frac{3}{4}$	6. $14\frac{13}{25}$ $+ 10\frac{1}{3}$ <hr/>
7. $\frac{25}{81} \times 7\frac{1}{5}$	8. $14\frac{2}{5} \div \frac{4}{15}$	9. $32\frac{2}{3}$ $- 28\frac{9}{10}$ <hr/>
10. $18\frac{2}{7} \div 1\frac{19}{45}$	11. $17\frac{9}{16} + 12\frac{3}{4}$	12. $\frac{27}{32} \times 2\frac{2}{7}$
13. $56\frac{4}{9} - 45\frac{1}{12}$	14. $\frac{25}{72} \times 10\frac{1}{5}$	15. $11\frac{93}{100}$ $- 3\frac{13}{20}$ <hr/>

Operations with Fractions and Mixed Numbers**Add, subtract, multiply, or divide. Write each answer in simplest form.**

1. $\begin{array}{r} \frac{17}{18} \\ - \frac{4}{5} \\ \hline \end{array}$	2. $8\frac{1}{10} \div \frac{9}{25}$	3. $\begin{array}{r} 16 \\ - 10\frac{2}{5} \\ \hline \end{array}$
4. $37\frac{1}{8} + 22\frac{2}{7}$	5. $3\frac{4}{15} \times 10\frac{5}{7}$	6. $14\frac{2}{5} \div \frac{7}{15}$
7. $\begin{array}{r} 62\frac{4}{25} \\ + 57\frac{9}{10} \\ \hline \end{array}$	8. $\begin{array}{r} 5\frac{2}{9} \\ - 3\frac{3}{5} \\ \hline \end{array}$	9. $9\frac{3}{5} \times 1\frac{1}{9}$
10. $62\frac{1}{2} \div 1\frac{23}{32}$	11. $\begin{array}{r} 12\frac{9}{56} \\ + 6\frac{1}{8} \\ \hline \end{array}$	12. $7\frac{1}{4} \times \frac{12}{17}$
13. $\begin{array}{r} 45\frac{11}{20} \\ - 16\frac{7}{100} \\ \hline \end{array}$	14. $4\frac{1}{8} \div \frac{11}{24}$	15. $16\frac{9}{10} \times 6\frac{2}{13}$

Proportions**Solve each proportion.**

1. $\frac{2}{3} = \frac{a}{18}$	2. $\frac{b}{7} = \frac{48}{56}$	3. $\frac{8}{9} = \frac{24}{p}$
4. $\frac{7}{t} = \frac{21}{75}$	5. $\frac{9}{10} = \frac{x}{110}$	6. $\frac{5}{k} = \frac{25}{60}$
7. $\frac{3}{4} = \frac{135}{w}$	8. $\frac{m}{16} = \frac{27}{48}$	9. $\frac{8}{13} = \frac{f}{156}$
10. $\frac{4}{c} = \frac{28}{175}$	11. $\frac{11}{20} = \frac{h}{100}$	12. $\frac{y}{4} = \frac{64}{256}$
13. $\frac{g}{23} = \frac{80}{92}$	14. $\frac{5}{x} = \frac{85}{102}$	15. $\frac{4}{9} = \frac{52}{b}$

Proportions**Solve each proportion.**

1. $\frac{6}{8} = \frac{m}{12}$	2. $\frac{15}{24} = \frac{10}{x}$	3. $\frac{2}{9} = \frac{g}{36}$
4. $\frac{1}{2} = \frac{18}{a}$	5. $\frac{15}{40} = \frac{3}{r}$	6. $\frac{16}{24} = \frac{b}{18}$
7. $\frac{13}{11} = \frac{s}{44}$	8. $\frac{20}{24} = \frac{5}{d}$	9. $\frac{3}{8} = \frac{15}{n}$
10. $\frac{17}{34} = \frac{12}{k}$	11. $\frac{12}{16} = \frac{h}{8}$	12. $\frac{12}{14} = \frac{t}{21}$
13. $\frac{10}{8} = \frac{25}{x}$	14. $\frac{22}{11} = \frac{v}{16}$	15. $\frac{2}{3} = \frac{8}{w}$
16. $\frac{5}{25} = \frac{15}{l}$	17. $\frac{6}{4} = \frac{3}{f}$	18. $\frac{24}{4} = \frac{6}{z}$

Fractions, Decimals, and Percents

Write each percent as a fraction in simplest form and as a decimal.

1. 12%	2. 125%	3. 96%
4. 1.7%	5. 5.75%	6. 45%

Write each decimal as a fraction in simplest form and as a percent.

7. 0.36	8. 1.94	9. 0.0425
10. 0.5	11. 0.85	12. 5.2

Write each fraction as a decimal and as a percent.

13. $\frac{64}{100}$	14. $\frac{5}{8}$	15. $\frac{18}{20}$
16. $\frac{41}{50}$	17. $4\frac{3}{4}$	18. $\frac{7}{10}$

Fractions, Decimals, and Percents

Write each percent as a fraction in simplest form and as a decimal.

1. 225%	2. 6.25%	3. 46%
4. 62%	5. 12.5%	6. 80%

Write each decimal as a fraction in simplest form and as a percent.

7. 0.6	8. 8.5	9. 0.35
10. 0.0615	11. 0.92	12. 0.125

Write each fraction as a decimal and as a percent.

13. $\frac{4}{10}$	14. $\frac{16}{25}$	15. $2\frac{1}{2}$
16. $\frac{7}{8}$	17. $\frac{9}{20}$	18. $\frac{12}{100}$

Percent of a Number**Find each number. Round to the nearest tenth if necessary.**

1. 55% of 274	2. 40% of 120	3. 35% of \$670
4. 42% of 64	5. 18% of 95	6. 96% of 27
7. 128% of 90	8. 180% of 24	9. 72% of 168
10. 8% of 95	11. 60% of 10	12. 350% of 20

Solve.

13. Carmen answered 96% of the 25 questions on her test correctly. How many questions did she answer correctly?	14. Kevin spent 75% of his money on new clothes. If he had \$125, how much did he spend on clothes?
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Percent of a Number**Find each number. Round to the nearest tenth if necessary.**

1. 42% of 132	2. 15% of 84	3. 98% of 125
4. 200% of 30	5. 1.6% of 225	6. 160% of 45
7. 5% of 137	8. 40% of 2.5	9. 22.5% of 320
10. 64% of 42	11. 90% of 84	12. 2% of 3

Solve.

13. Jasmine received 20% off her total purchase at a store. If she spent \$45.60, how much was the discount?	14. Seventy percent of the students in Mr. Harrison's class earned an A on the last test. If there are 30 students in the class, how many earned an A?
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Ratios and Rates

Write each ratio as a fraction in simplest form.

1. 4 busses for 80 students	2. 15 cats out of 39 pets
3. 6 pairs of jeans out of 10 pairs of pants	4. 10 roses in a bouquet of 15 flowers
5. 18 red jelly beans in a jar of 42 jelly beans	6. 14 boys in a class of 28 students

Write each rate as a unit rate. Round to the nearest hundredth if necessary.

7. 175 miles in 2.5 hours	8. \$25 for 6 packages of light bulbs												
9. 100 meters in 15.5 seconds	10. \$285 for 30 hours												
11. A grocery store sells three different sizes of orange juice. Which container is the better buy? Explain.	<table border="1"> <thead> <tr> <th>Container</th> <th>Size (oz)</th> <th>Price (\$)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>64</td> <td>3.75</td> </tr> <tr> <td>B</td> <td>80</td> <td>5.00</td> </tr> <tr> <td>C</td> <td>128</td> <td>6.25</td> </tr> </tbody> </table>	Container	Size (oz)	Price (\$)	A	64	3.75	B	80	5.00	C	128	6.25
Container	Size (oz)	Price (\$)											
A	64	3.75											
B	80	5.00											
C	128	6.25											

Ratios and Rates

Write each ratio as a fraction in simplest form.

1. 4 red balloons out of 18 balloons	2. 20 out of 25 doctors agree
3. 18 out of 30 students prefer pepperoni pizza	4. 0.25 cup soap in every 3 cups water
5. 16 yellow counters out of 30 counters	6. 10 red cars out of 50 total cars

Write each rate as a unit rate. Round to the nearest hundredth if necessary.

7. \$25.50 for 3 air filters	8. 575 miles in 8.8 hours												
9. 20 gallons in 4 days	10. \$58 for 8 hours												
11. An online photo printing services offers three different packages to print photos. Which package is the better buy? Explain.	<table border="1"> <thead> <tr> <th>Package</th> <th>Number of Pictures</th> <th>Price (\$)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>100</td> <td>11.00</td> </tr> <tr> <td>B</td> <td>150</td> <td>19.50</td> </tr> <tr> <td>C</td> <td>200</td> <td>24.00</td> </tr> </tbody> </table>	Package	Number of Pictures	Price (\$)	A	100	11.00	B	150	19.50	C	200	24.00
Package	Number of Pictures	Price (\$)											
A	100	11.00											
B	150	19.50											
C	200	24.00											

Absolute Value**Evaluate each expression.**

1. $ -5 $	2. $ 18 $	3. $ -12 $
4. $ 26 $	5. $ -4 + 5$	6. $16 + 7 $
7. $ -32 - 18$	8. $25 - -10 $	9. $ 18 + 18$
10. $31 + -14 $	11. $ 40 - 15$	12. $ -15 - 8$
13. $ 14 + -12 $	14. $ -8 + -4 $	15. $ -24 + -10 $
16. $ 15 - -6 $	17. $ -30 - -16 $	18. $ 18 - -9 $

Absolute Value**Evaluate each expression.**

1. $ -12 $	2. $ 54 $	3. $ -18 $
4. $ -22 + 5$	5. $ -40 - 8$	6. $15 + 15 $
7. $ -18 - 10$	8. $41 + -18 $	9. $ -12 - 9$
10. $ -28 + 20 $	11. $ -7 + -1 $	12. $ 98 - -5 $
13. $ -49 - -10 $	14. $ -27 + -16 $	15. $ 32 - -8 $

Solve.

16. A football team gained 8 yards on one play and lost 6 yards on another. Which situation has the greater absolute value? Explain.	17. Megan earned \$15 mowing the lawn. She spent \$20 on a new sweater. Which situation has the greater absolute value? Explain.
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Adding Integers**Add.**

1. $-8 + (-9)$	2. $6 + 7$	3. $-15 + 20$
4. $-12 + 4$	5. $26 + (-3)$	6. $-17 + (-3)$
7. $25 + 43$	8. $-25 + 43$	9. $25 + (-43)$
10. $-25 + (-43)$	11. $30 + (-30)$	12. $-55 + 22$
13. $-25 + 8$	14. $-2 + 15$	15. $-1 + (-19)$
16. $46 + (-57)$	17. $-50 + 50$	18. $-99 + 1$
19. $-99 + (-1)$	20. $-87 + (-13)$	21. $-62 + 125$

Adding Integers**Add.**

1. $25 + (-12) + 12$	2. $10 + (-7) + 1$	3. $17 + (-2) + 7$
4. $-9 + 4 + (-11)$	5. $-16 + 52 + 16$	6. $12 + (-20) + 5$
7. $-22 + (-8) + 6$	8. $-7 + (-3) + (-15)$	9. $27 + (-13) + (-27)$
10. $-24 + (-6) + (-31)$	11. $5 + (-1) + (-12) + 8$	12. $-20 + 5 + (-7) + 9$
13. $-18 + 4 + (-2) + 12$	14. $13 + (-6) + (-10) + (-8)$	15. $-1 + (-2) + (-8) + (-6)$
16. $-10 + (-13) + 6 + 7$	17. $-44 + 33 + 11 + 5$	18. $75 + (-25) + 1 + (-50)$
19. $15 + 23 + 25 + 17$	20. $-25 + (-4) + (-6) + (-25)$	21. $-7 + (-34) + (-13) + (-16)$

Subtracting Integers**Subtract.**

1. $15 - 11$	2. $7 - 13$	3. $-8 - 5$
4. $20 - (-25)$	5. $45 - (-32)$	6. $-18 - (-27)$
7. $-31 - (-19)$	8. $29 - 10$	9. $-6 - 1$
10. $16 - 20$	11. $-23 - (-15)$	12. $12 - (-17)$
13. $-18 - 2$	14. $-3 - 10$	15. $-22 - (-11)$
16. $9 - 1$	17. $1 - 9$	18. $25 - (-30)$
19. $-13 - (-8)$	20. $-7 - 7$	21. $-7 - (-7)$

Subtracting Integers**Subtract.**

1. $9 - 19$	2. $20 - 3$	3. $-13 - 11$
4. $-22 - 35$	5. $16 - (-8)$	6. $-16 - (-8)$
7. $-6 - (-2)$	8. $23 - 11$	9. $-15 - 15$
10. $8 - 12$	11. $-31 - (-21)$	12. $9 - (-2)$
13. $-27 - 14$	14. $-8 - 18$	15. $-34 - (-13)$
16. $15 - 5$	17. $5 - 15$	18. $17 - (-20)$
19. $-29 - (-22)$	20. $-1 - 1$	21. $-1 - (-1)$

Adding and Subtracting Integers**Add or subtract.**

1. $12 + 20$	2. $17 - 11$	3. $-33 + 22$
4. $18 - 23$	5. $-10 + (-8)$	6. $14 + (-5)$
7. $16 - 17$	8. $3 - (-5)$	9. $24 - (-7)$
10. $-3 + (-3)$	11. $-3 - (-3)$	12. $3 - (-3)$
13. $15 + (-20)$	14. $-20 + 15$	15. $14 - 5$
16. $7 - 13$	17. $-29 + (-1)$	18. $-29 - 1$
19. $44 - 55$	20. $-36 - (-60)$	21. $12 - 14$

Adding and Subtracting Integers**Add or subtract.**

1. $6 + 9$	2. $24 - 16$	3. $-21 + 14$
4. $9 - 18$	5. $-25 + (-15)$	6. $17 + (-4)$
7. $3 - 4$	8. $1 - (-9)$	9. $19 - (-3)$
10. $-10 + (-10)$	11. $-10 - 10$	12. $42 - (-22)$
13. $4 + (-14)$	14. $-14 + 4$	15. $21 - 10$
16. $8 - 9$	17. $-35 + (-2)$	18. $-14 - 3$
19. $17 - 19$	20. $-28 - (-40)$	21. $18 - 21$

Multiplying Integers**Multiply.**

1. $3(-7)$	2. $-8(7)$	3. $5(6)$
4. $-2(-2)$	5. $(-3)(-3)$	6. $-5(-8)$
7. $12(-6)$	8. $-7(11)$	9. $-1(13)$
10. $-1(-15)$	11. $(-7)(-7)$	12. $2(-3)(4)$
13. $5(-2)(-4)$	14. $-3(-5)(-4)$	15. $-2(22)$
16. $-1(-7)(-9)$	17. $-1(-4)(-4)$	18. $3(2)(2)$
19. $(-4)(-4)(-4)$	20. $-1(3)(3)(3)$	21. $3(-2)(-2)(-2)$

Multiplying Integers**Multiply.**

1. $5(-2)$	2. $-9(8)$	3. $12(11)$
4. $-6(-6)$	5. $(-5)(-5)$	6. $-10(-3)$
7. $8(-2)$	8. $-9(10)$	9. $-1(23)$
10. $-1(-30)$	11. $(-9)(-9)$	12. $3(-6)(5)$
13. $6(-2)(-5)$	14. $-2(-8)(-3)$	15. $-3(13)$
16. $-1(-6)(-7)$	17. $-1(-2)(-2)$	18. $4(3)(3)$
19. $(-5)(-5)(-5)$	20. $-1(5)(5)(5)$	21. $-1(-6)(-6)(-6)$

Dividing Integers**Divide.**

1. $-25 \div 5$	2. $-32 \div (-4)$	3. $64 \div 8$
4. $\frac{12}{-3}$	5. $20 \div (-2)$	6. $\frac{-48}{6}$
7. $-45 \div (-9)$	8. $54 \div (-9)$	9. $\frac{-42}{-2}$
10. $144 \div 12$	11. $-95 \div 5$	12. $51 \div (-3)$
13. $\frac{-52}{2}$	14. $100 \div (-25)$	15. $-18 \div (-1)$
16. $-87 \div 29$	17. $\frac{135}{45}$	18. $\frac{-99}{-9}$
19. $92 \div (-23)$	20. $-1 \div (-1)$	21. $-250 \div (-125)$

Dividing Integers**Divide.**

1. $14 \div 7$	2. $-35 \div (-7)$	3. $-81 \div 9$
4. $\frac{-64}{32}$	5. $98 \div (-49)$	6. $\frac{-90}{-5}$
7. $-75 \div (-3)$	8. $25 \div (-5)$	9. $\frac{-45}{-15}$
10. $169 \div 13$	11. $-27 \div 9$	12. $49 \div (-7)$
13. $\frac{-3}{3}$	14. $63 \div (-7)$	15. $-5 \div (-1)$
16. $-112 \div 4$	17. $\frac{250}{-50}$	18. $-8 \div (-8)$
19. $156 \div (-3)$	20. $\frac{-34}{-17}$	21. $-136 \div (-4)$

Multiplying and Dividing Integers**Multiply or divide.**

1. $-25(4)$	2. $-120 \div (-60)$	3. $18 \div 3$
4. $-6(-16)$	5. $14(5)$	6. $\frac{-28}{2}$
7. $-38 \div (-19)$	8. $-15(-2)$	9. $\frac{-42}{-3}$
10. $225 \div 15$	11. $-7(-11)$	12. $-13(5)$
13. $\frac{89}{-1}$	14. $120 \div (-8)$	15. $-4(-6)(2)$
16. $-111 \div 3$	17. $\frac{144}{3}$	18. $-3(-2)(-2)$
19. $117 \div (-13)$	20. $-3(-5)(-7)$	21. $-(6) \div (-3)$

Multiplying and Dividing Integers**Multiply or divide.**

1. $-135 \div (-9)$	2. $-8(-4)$	3. $9(-9)$
4. $\frac{124}{-4}$	5. $16(6)$	6. $-72 \div (-6)$
7. $-1(91)$	8. $145 \div (-5)$	9. $\frac{-7}{7}$
10. $4(-13)$	11. $-12(-3)$	12. $-11 \div (-11)$
13. $5(-4)(7)$	14. $55 \div (-5)$	15. $-11(-2)(-3)$
16. $-110 \div 5$	17. $\frac{-96}{-8}$	18. $5(-3)(-3)$
19. $143 \div (-11)$	20. $2(-5)(10)$	21. $-(-8) \div 2$

Identifying Properties

Identify the property shown by each equation.

1. $5 \cdot 18 = 18 \cdot 5$	2. $(9 + 5)3 = 9(3) + 5(3)$
3. $10 + (-10) = 0$	4. $17 + (3 + 29) = (17 + 3) + 29$
5. $0 + 18 = 18$	6. $-5 \cdot 1 = 1 \cdot (-5)$
7. $-20 \cdot 1 = -20$	8. $19(16) + 19(4) = 19(16 + 4)$
9. $\frac{2}{3} \cdot \frac{3}{2} = 1$	10. $0 + 75 = 75 + 0$
11. $-50 + 50 = 0$	12. $\frac{9}{4} \cdot \frac{4}{9} = 1$
13. $25 \cdot (4 \cdot 35) = (25 \cdot 4) \cdot 35$	14. $0 + 21 = 21$

Identifying Properties

Identify the property shown by each equation.

1. $12(32) + 12(8) = 12(32 + 8)$	2. $-19 + 19 = 0$
3. $1 \cdot (4 + 6) = (4 + 6) \cdot 1$	4. $97 + (3 + 35) = (97 + 3) + 35$
5. $0 + (7 \cdot 3) = (7 \cdot 3)$	6. $\frac{5}{4} \cdot \frac{4}{5} = 1$
7. $-8 \cdot 1 = 1 \cdot (-8)$	8. $0 + (10 \cdot 3) = (10 \cdot 3) + 0$
9. $20 \cdot (5 \cdot 87) = (20 \cdot 5) \cdot 87$	10. $(7 \cdot 4) + 6 = 6 + (7 \cdot 4)$
11. $(13 + 9) + 0 = (13 + 9)$	12. $48(5) + 48(15) = 48(5 + 15)$
13. $-\frac{2}{7} \cdot \left(-\frac{7}{2}\right) = 1$	14. $(4 + 14) \cdot 1 = (4 + 14)$

Using Properties**Simplify each expression. Tell which property you used.**

1. $8 \cdot 38$	2. $54 + (6 + 49)$
3. $22(13)$	4. $1 \cdot (6 \cdot 9)$
5. $\frac{2}{3} \cdot 17 \cdot \frac{3}{2}$	6. $15(18) + 15(2)$
7. $(29 + 75) + 25$	8. $10 + 63 + 90$
9. $0 + (33 + 9)$	10. 12×105
11. $(87 \times 5) \times 20$	12. $-21 + 77 + 21$
13. $4 \times 32 \times 50$	14. $8 + \left(\frac{3}{7}\right)\left(\frac{7}{3}\right) + (-8)$

Using Properties**Simplify each expression. Tell which property you used.**

1. $43 + (7 + 39)$	2. $7(92)$
3. $(17 + 18) \cdot 1$	4. $\frac{9}{10} \cdot 18 \cdot \frac{10}{9}$
5. $24(16) + 24(4)$	6. $27 + 82 + (-27)$
7. $(57 + 85) + 15$	8. $20 + 49 + 80$
9. $12(103)$	10. $0 + (15 + 6)$
11. $(98 \times 4) \times 25$	12. $-36 + 125 + 36$
13. $\left(\frac{5}{7} \cdot 29\right) \cdot \frac{7}{5}$	14. $5 \times 16 \times 40$

One-Step Equations**Solve each equation. Check your solution.**

1. $17 + p = -33$	2. $12 = w - 8$	3. $5x = 30$
4. $\frac{m}{3} = -10$	5. $n + (-39) = 55$	6. $18 = q - 7$
7. $6b = -54$	8. $\frac{x}{-5} = 6$	9. $14 + c = 6$
10. $a - 6 = -1$	11. $\frac{-t}{4} = 6$	12. $-\frac{c}{8} = 5$
13. $16 = k + 5$	14. $g - 10 = -4$	15. $22d = -66$
16. $\frac{h}{7} = -5$	17. $-3 + f = 1$	18. $-6 = g - 4$

One-Step Equations**Solve each equation. Check your solution.**

1. $-9 = -12 + w$	2. $-11 = t - 5$	3. $2w = 18$
4. $\frac{p}{-4} = -20$	5. $5 + z = 13$	6. $k - 9 = -6$
7. $4t = -24$	8. $\frac{r}{7} = -3$	9. $9 = h + -5$
10. $1 = z - 9$	11. $9c = -72$	12. $\frac{c}{-6} = -5$
13. $8 = p + 7$	14. $j - 15 = -22$	15. $33y = -99$
16. $\frac{j}{8} = 9$	17. $h + (-9) = -19$	18. $r - 2 = -5$

Two-Step Equations**Solve each equation. Check your solution.**

1. $2x + 4 = 10$	2. $3x - 13 = 2$	3. $-8j - 7 = 57$
4. $9d - 5 = 4$	5. $6 - 3w = -27$	6. $-4 = \frac{q}{8} - 19$
7. $15 - \frac{n}{7} = 13$	8. $44 = -4 + 8p$	9. $21 - h = -32$
10. $\frac{k}{6} + 8 = 12$	11. $-19 = 11b - (-3)$	12. $6 = 20 + \frac{x}{3}$
13. $9 + 3a = -3$	14. $2x - 8 = 10$	15. $\frac{m}{4} - 6 = 10$
16. $-12 + 3p = 3$	17. $-18 = 6a - 6$	18. $\frac{t}{-3} + 11 = 23$

Two-Step Equations**Solve each equation. Check your solution.**

1. $3 + 2v = 11$	2. $16 = \frac{k}{3} - 11$	3. $-6g - 12 = -60$
4. $15 - 4c = -21$	5. $5a + 3 = 28$	6. $3m + 15 = 27$
7. $20 = \frac{n}{5} + 12$	8. $25 = 2d - 9$	9. $-2h + 1 = 7$
10. $\frac{r}{-6} + 1 = 3$	11. $-16 = \frac{g}{2} - 7$	12. $-7 - 8p = 17$
13. $23 - 2s = 41$	14. $5a - 3 = -23$	15. $\frac{b}{4} - 6 = -8$
16. $\frac{c}{4} - 20 = -1$	17. $4w - 18 = -34$	18. $4d + 9 = 25$

Graphing Inequalities**Graph each inequality on a number line.**

1. $x > -3$



2. $2 > n$



3. $y \leq 4$



4. $m < -2$



5. $q \geq 1$



6. $-1 \leq a$



7. $b \leq -7$



8. $18 > s$



9. $k \leq -9$



10. $9 < t$






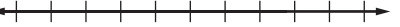








11. $b \geq 16$



12. $d < 10$















Graphing Inequalities**Graph each inequality on a number line.**

<p>1. $x \geq 70$</p> 	<p>2. $g < 40$</p> 
<p>3. $y \leq 28$</p> 	<p>4. $c > 18$</p> 
<p>5. $d \geq 5$</p> 	<p>6. $-25 < b$</p> 
<p>7. $s \geq 11$</p> 	<p>8. $36 < t$</p> 
<p>9. $m \geq -24$</p> 	<p>10. $15 > v$</p> 
<p>11. $c < 63$</p> 	<p>12. $g \geq 0$</p> 













One-Step Inequalities

Solve each inequality. Graph the solution set on a number line.

<p>1. $m + 9 < 14$</p> 	<p>2. $k + (-5) < -12$</p> 
<p>3. $-15 < v - 1$</p> 	<p>4. $-7 + f \geq 47$</p> 
<p>5. $r + 8 > -15$</p> 	<p>6. $18 \geq s - (-4)$</p> 
<p>7. $6p < 78$</p> 	<p>8. $\frac{m}{-3} > 24$</p> 
<p>9. $-18 < 3b$</p> 	<p>10. $-5k \geq 125$</p> 
<p>11. $-5 > \frac{a}{5}$</p> 	<p>12. $\frac{w}{6} < -5$</p> 

One-Step Inequalities

Solve each inequality. Graph the solution set on a number line.

<p>1. $s - 14 > 12$</p> 	<p>2. $m + 18 < 40$</p> 
<p>3. $h + 20 > -13$</p> 	<p>4. $x - 12 > 52$</p> 
<p>5. $p + (-3) > -7$</p> 	<p>6. $12 \geq r + 7$</p> 
<p>7. $-8s \leq -24$</p> 	<p>8. $\frac{h}{-8} < -4$</p> 
<p>9. $\frac{d}{-2} \geq -3$</p> 	<p>10. $12k < 36$</p> 
<p>11. $12 \leq \frac{n}{-4}$</p> 	<p>12. $\frac{k}{7} \geq -6$</p> 

Two-Step inequalities

Solve each inequality. Graph the solution set on a number line.

1. $3a - 6 \geq 6$



2. $2g - 7 < -1$



3. $-10 + 2m > 8$



4. $4 - 2b \leq -8$



5. $5w - 12 > 3$



6. $-4 - 5t \geq 6$



7. $\frac{q}{2} - 6 > -8$



8. $2g - 3 > -9$



9. $10 - \frac{d}{4} \geq 5$



10. $15 > 6y + 3$



11. $2k - 6 < 4$















12. $3s - 4 \leq 8$



Two-Step inequalities

Solve each inequality. Graph the solution set on a number line.

<p>1. $18 - 7f \geq 4$</p> 	<p>2. $13 + 3p < 7$</p> 
<p>3. $5t - 14 > -24$</p> 	<p>4. $3 + 4d \leq 15$</p> 
<p>5. $7 > 5 - 2x$</p> 	<p>6. $-9m - 9 \leq 9$</p> 
<p>7. $-\frac{x}{4} + 2 < 7$</p> 	<p>8. $2g - 16 \leq -10$</p> 
<p>9. $8z + 15 > -1$</p> 	<p>10. $14e + 14 \leq -28$</p> 
<p>11. $92 - 16b < 12$</p> 	<p>12. $4k + 12 \geq 20$</p> 

Mean, Median, Mode, and Range

Find the mean, median, mode, and range of each set of data. Round to the nearest tenth if necessary.

1. 16, 12, 20, 15, 12	2. 42, 38, 56, 48, 43, 43
3. 8, 3, 12, 5, 2, 9, 3	4. 85, 75, 93, 82, 73, 78
5. 25, 32, 38, 27, 35, 25, 28	6. 112, 103, 121, 104
7. 57, 63, 53, 67, 71, 67	8. 21, 25, 20, 28, 26
9. 57, 42, 86, 76, 42, 57	10. 215, 176, 194, 223, 202
11. 18, 21, 22, 19, 22, 26, 24, 18, 24, 26	12. 10, 21, 31, 41, 26, 32, 38, 42, 42, 44, 55
13. 1, 5, 9, 1, 2, 4, 8, 2	14. 46, 54, 66, 54, 50, 66

Mean, Median, Mode, and Range

Find the mean, median, mode, and range of each set of data. Round to the nearest tenth if necessary.

1. 82, 79, 93, 91, 85	2. 23, 32, 19, 27, 41, 21, 26, 32, 23
3. 8, 11, 13, 11, 12, 14, 11, 12, 14, 11, 12	4. 0.8, 0.2, 0.5, 0.3, 0.3, 0.4, 0.5, 0.4, 0.3, 0.4, 0.5, 0.6, 0.2, 0.3
5. 23, 26, 35, 28, 21, 24, 30, 39, 35, 25, 38	6. 172, 198, 181, 182, 193, 171, 179, 186, 181
7. 17, 54, 37, 86, 24, 69, 77, 92, 21	8. 73, 61, 89, 67, 82, 54, 93, 102, 59, 75, 83
9. 44, 37, 23, 35, 61, 95, 49, 96	10. 271, 491, 181, 193, 411, 491, 361, 318
11. 42, 23, 31, 27, 32, 48, 37, 25, 19, 26, 30, 41, 32, 29	12. 124, 327, 215, 278, 109, 225, 186, 134, 251, 308, 179
13. 1.5, 1.8, 1.6, 1.4, 2.5, 1.7, 1.6, 1.5, 1.6, 1.7	14. 17, 24, 19, 16, 15, 28, 32, 24, 19, 17, 26, 25, 23

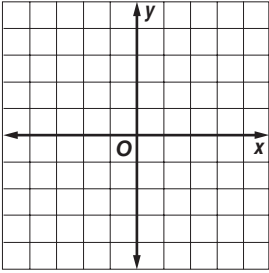
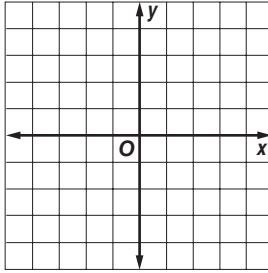
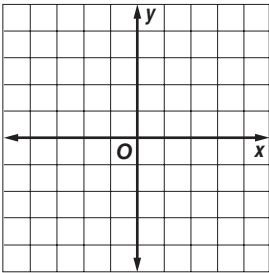
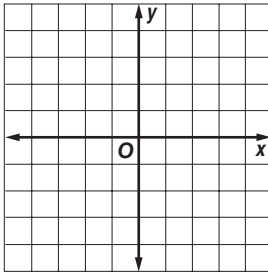
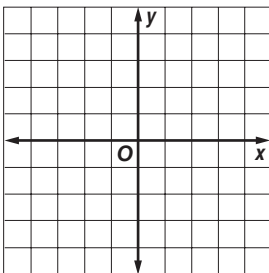
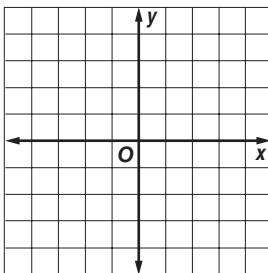
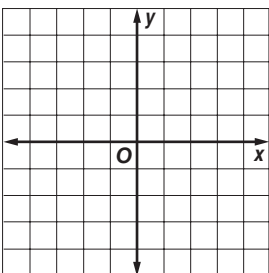
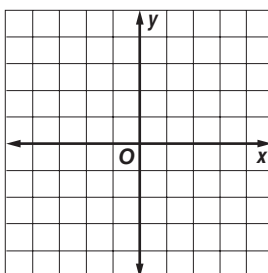
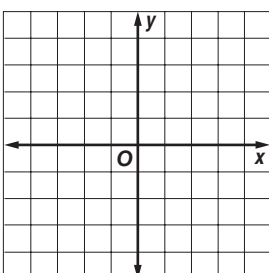
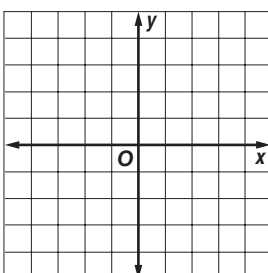
Graphing Points on a Coordinate Plane

Name the ordered pair for each point graphed.

<p>1.</p>	<p>2.</p>
<p>3.</p>	<p>4.</p>
<p>5.</p>	<p>6.</p>
<p>7.</p>	<p>8.</p>
<p>9.</p>	<p>10.</p>

Graphing Points on a Coordinate Plane

Graph each ordered pair.

<p>1. $A(4, 3)$, $B(-2, 0)$</p> 	<p>2. $C(3, -1)$, $D(-4, 1)$</p> 
<p>3. $E(0, -4)$, $F(3, 2)$</p> 	<p>4. $G(-2, -3)$, $H(2, 1)$</p> 
<p>5. $I(0, 0)$, $J(-3, -3)$</p> 	<p>6. $K(1, 4)$, $L(-2, -4)$</p> 
<p>7. $M(0, -2)$, $N(4, 4)$</p> 	<p>8. $P(3, 0)$, $Q(1, -1)$</p> 
<p>9. $S(2, 2)$, $T(3, -4)$</p> 	<p>10. $U(0, 1)$, $W(1, 0)$</p> 

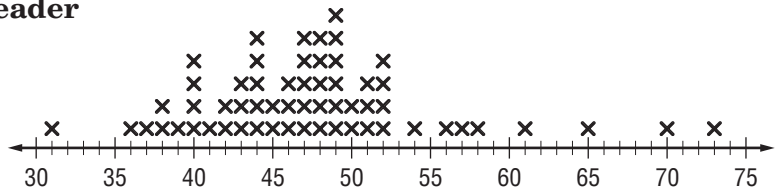
Line Plots

Display each set of data in a line plot.

<p>1. ages in years of customers in a store: 15, 24, 16, 16, 24, 19, 22, 24, 25, 16, 20, 15, 24</p>	<p>2. points scored by a player in each basketball game: 8, 10, 5, 9, 12, 14, 5, 6, 3, 7, 0, 1, 14, 16, 20, 2, 5, 10, 18, 0, 6</p>
<p>3. test scores: 78, 95, 80, 85, 70, 88, 95, 90, 95, 85, 88, 79, 75, 90, 85, 82, 76, 75, 82, 80</p>	<p>4. number of pets: 0, 1, 3, 4, 0, 2, 1, 0, 1, 1, 10, 0, 1, 5, 2</p>
<p>5. high temperatures: 75, 81, 75, 65, 76, 81, 77, 80, 65, 65, 80, 80, 76, 85, 66, 75, 80, 75</p>	<p>6. number of stories in buildings: 43, 36, 42, 29, 54, 42, 32, 34, 52, 40, 32, 32</p>

The line plot shows the number of home runs hit by the Major League Baseball home run leader for certain years.

MLB Home Runs by Home Run Leader
1950-2008



<p>7. What number of home runs occurs the most often? How many players hit this many home runs?</p>	<p>8. What is the range of the data?</p>
<p>9. Find the mean, median, and mode of the data. Round to the nearest tenth if necessary.</p>	<p>10. How many of the players hit 50 or more home runs?</p>

Circle Graphs

Construct a circle graph for each set of data.

1.

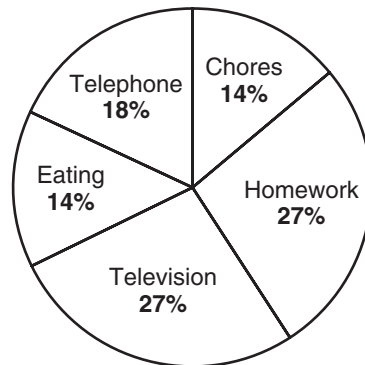
Color	Percent of Students
Red	19
Blue	17
Green	12
Yellow	7
Purple	35
Other	10

2.

Topping	Number of Students
Cheese	95
Pepperoni	75
Sausage	70
Mushroom	50
Peppers	30
Other	10

The circle graph shows how Miguel divides the 5 hours he is home in the evening between different activities.

Miguel's Evening Activities



3. How much time does he spend doing homework?

4. How does the amount of time he spends watching television compare with the time he spends eating?

5. How much time does Miguel spend on his chores?

6. How much more time does he spend on homework than on the telephone?

Stem-and-Leaf Plots

Display each set of data in a stem-and-leaf plot.

<p>1.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="5" style="text-align: center;">Test Scores</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">90</td> <td style="text-align: center;">80</td> <td style="text-align: center;">84</td> <td style="text-align: center;">72</td> <td style="text-align: center;">79</td> </tr> <tr> <td style="text-align: center;">73</td> <td style="text-align: center;">76</td> <td style="text-align: center;">80</td> <td style="text-align: center;">81</td> <td style="text-align: center;">76</td> </tr> <tr> <td style="text-align: center;">95</td> <td style="text-align: center;">75</td> <td style="text-align: center;">99</td> <td style="text-align: center;">88</td> <td style="text-align: center;">86</td> </tr> </tbody> </table>	Test Scores					90	80	84	72	79	73	76	80	81	76	95	75	99	88	86	<p>2.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="5" style="text-align: center;">Height of Students (in.)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">40</td> <td style="text-align: center;">51</td> <td style="text-align: center;">58</td> <td style="text-align: center;">57</td> <td style="text-align: center;">55</td> </tr> <tr> <td style="text-align: center;">50</td> <td style="text-align: center;">57</td> <td style="text-align: center;">51</td> <td style="text-align: center;">57</td> <td style="text-align: center;">41</td> </tr> <tr> <td style="text-align: center;">57</td> <td style="text-align: center;">55</td> <td style="text-align: center;">48</td> <td style="text-align: center;">60</td> <td style="text-align: center;">57</td> </tr> </tbody> </table>	Height of Students (in.)					40	51	58	57	55	50	57	51	57	41	57	55	48	60	57
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50	57	51	57	41																																					
57	55	48	60	57																																					
<p>3. costs in dollars of shoes: 50, 65, 80, 96, 54, 70, 76, 80, 60, 75, 78, 59</p>	<p>4. number of books in different collections: 88, 90, 102, 104, 67, 109, 97, 98, 86, 88, 86, 100, 103, 99, 90, 106</p>																																								

The stem-and-leaf plot shows the number of people to attend different screenings of a movie.

Movie Attendance	
Stem	Leaf
7	2 8 8
8	6 8
9	6 6 7
10	0 3 5 9
11	2 9
12	1 3 7 8 9
	$7 2 = 72$ people

<p>5. Find the mean, median, and mode of the data. Round to the nearest tenth if necessary.</p>	<p>6. What is the range of the data?</p>
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Histograms

Display each set of data in a histogram.

1.

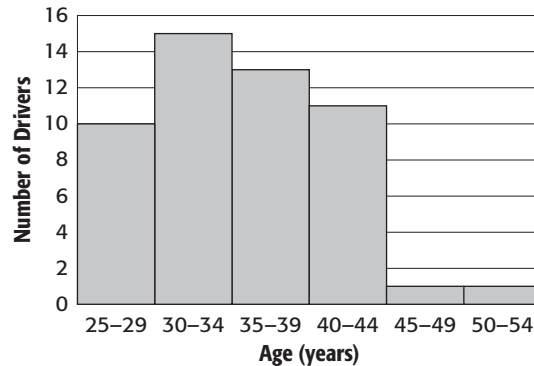
Weekly Exercise Time		
Time (h)	Tally	Frequency
0–2		8
3–5		4
6–8		2
9–11		3

2.

Weekly Grocery Bill		
Amount (\$)	Tally	Frequency
0–49		6
50–99		12
100–149		8
150–199		4
200–249		2

The histogram shows the ages of Daytona 500 winners.

Ages of Daytona 500 Winners



3. How many drivers were 35 or older when they won?

4. What percent of the drivers were 40 or over when they won? Round to the nearest tenth.

Measurement: The Customary System**Complete.**

1. 72 inches = _____ ? _____ feet	2. 4 gallons = _____ ? _____ pints
3. 48 ounces = _____ ? _____ pounds	4. 6 yards = _____ ? _____ inches
5. 88 fluid ounces = _____ ? _____ cups	6. 18 feet = _____ ? _____ yards
7. 7 tons = _____ ? _____ pounds	8. 40 pints = _____ ? _____ quarts
9. 21,120 feet = _____ ? _____ miles	10. 2 gallons = _____ ? _____ fluid ounces
11. 78 inches = _____ ? _____ feet	12. 12 cups = _____ ? _____ gallons

Measurement: The Customary System**Complete.**

1. 40 quarts = _____ ? _____ gallons	2. 4 miles = _____ ? _____ feet
3. 8 tons = _____ ? _____ ounces	4. 256 fluid ounces = _____ ? _____ gallons
5. 2 miles = _____ ? _____ inches	6. 96,000 ounces = _____ ? _____ tons
7. 2 gallons = _____ ? _____ cups	8. 216 inches = _____ ? _____ yards
9. 8 quarts = _____ ? _____ fluid ounces	10. 2 miles = _____ ? _____ feet
11. 2 tons = _____ ? _____ ounces	12. 64 cups = _____ ? _____ gallons

Measurement: The Metric System**Complete.**

1. 5 m = _____ ? _____ cm	2. 1,200 g = _____ ? _____ kg
3. 750 mL = _____ ? _____ L	4. 300 mm = _____ ? _____ cm
5. 23 kL = _____ ? _____ L	6. 62,500 mg = _____ ? _____ g
7. 450 cm = _____ ? _____ m	8. 1,100 L = _____ ? _____ kL
9. 15 kg = _____ ? _____ mg	10. 10,000 mL = _____ ? _____ kL
11. 8,235 cm = _____ ? _____ km	12. 320,000 mm = _____ ? _____ km

Measurement: The Metric System**Complete.**

1. 10 meters = _____ ? centimeters	2. 6,000 grams = _____ ? kilograms
3. 850 milliliters = _____ ? _____ liters	4. 600 millimeters = _____ ? centimeters
5. 46 kiloliters = _____ ? _____ liters	6. 42,500 milligrams = _____ ? grams
7. 900 centimeters = _____ ? meters	8. 2,200 liters = _____ ? _____ kiloliters
9. 30 kilograms = _____ ? milligrams	10. 50,000 milliliters = _____ ? kiloliters
11. 6,250 centimeters = _____ ? kilometers	12. 640,000 millimeters = _____ ? kilometers

Skills Include:

- Decimal Operations
- Fraction Operations
- Percents
- Ratios and Rates
- Integer Operations
- Properties
- Equations
- Inequalities
- Data Displays
- Measurement

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