Name $\qquad$
$\qquad$
1 Unit 1 Test
For use after Chapters 1-4

Find the sum, difference, product or quotient.

1. $287+304$
2. $416 \div 13$
3. $27 \times 136$

## Evaluate the expression.

4. $4^{3}$
5. $9^{2}-36 \div 3$
6. $12+6 \times 3-14 \div 7$
7. $5^{2}+3 \times 8$

## Evaluate the expression when $x=8$.

8. $12 x+7$
9. $36 \div(x+4)$

Solve the equation using mental math.
10. $36-x=17$
11. $35 \div x=7$

Estimate the length of the object using the indicated unit.
12. length of the sunflower seed (millimeters)
13. length of the line segment (inches)
$\bullet \longrightarrow$
14. Find the perimeter and area of a rectangle with a length of 12 inches and a width of 18 inches.
15. A picture of a bicycle in a catalog is 4 inches tall. The scale is 2 inches : 18 inches. How tall is the actual bike?
16. You want to compare the numbers of sixth graders to the numbers of seventh graders on the sports teams at your school. Should you use a stacked bar graph or a double bar graph?


## Answers

1. 
2. 
3. $\qquad$
4. $\qquad$
5. 
6. 
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. 
11. $\qquad$
12. $\qquad$
13. $\qquad$
14. $\qquad$
15. 
16. $\qquad$
17. $\qquad$
18. $\qquad$
19. 


19. Fifty students were asked what they believe their most important school subject is. Use the results shown in the circle graph to predict the number of students out of 250 that would choose math.


Name $\qquad$ Date $\qquad$

## Unit Test 1

For use after Chapters 1-4
20. Find the mean, median, mode(s) and range of the data:
$22,26,24,22,16,12,18,22,18,20$
21. Write 31.0152 in words.
22. Complete the statement:

2 and 6 tenths centimeters $=$ $\qquad$ centimeters.
23. Order the numbers from least to greatest:
$5.09,5.2,5.12,5.07,5.1$

## Round the decimal as specified.

24. 92.0327 (nearest hundredth)
25. 0.01561 (leading digit)
26. Use rounding to estimate the sum $3.8+4.2+3.7$.
27. Use front-end estimation to estimate the sum $5.69+2.12+3.07$.

Evaluate the expression when $x=3.12$ and $y=5.06$.
28. $15.7+x$
29. $(9.1+x)-y$

Find the product.
30. $7 \times 1.45$
31. $4.315 \times 8$
32. $0.35 \times 0.71$
33. $2.1 \times 0.3$
34. Find the area of a rectangle with length 6.2 meters and width 3.12 meters.
35. Ground meat costs $\$ 2.89$ a pound. You buy 1.2 pounds in one package and 1.8 pounds in another. To the nearest cent, how much do you spend on meat?

Divide. Round to the nearest tenth if necessary.
36. $15 \div 6$
37. $7 \longdiv { 2 4 . 7 6 }$
38. $6.205 \div 0.1$
39. $0 . 2 4 \longdiv { 1 5 6 . 8 }$

Choose an appropriate metric unit to measure the item.
40. capacity of an eyedropper
41. mass of a truck
42. Complete the statement: $175 \mathrm{~g}=$ $\qquad$ ? kg.

## Answers

20. $\qquad$
$\qquad$
$\qquad$
$\qquad$
21. $\qquad$
$\qquad$
22. $\qquad$
23. $\qquad$
24. 
25. $\qquad$
26. $\qquad$
27. $\qquad$
28. $\qquad$
29. $\qquad$
30. $\qquad$
31. $\qquad$
32. $\qquad$
33. $\qquad$
34. 
35. $\qquad$
36. $\qquad$
37. $\qquad$
38. 
39. $\qquad$
40. $\qquad$
41. $\qquad$
42. $\qquad$

Name $\qquad$
$\qquad$

## 2 Unit 2 Test

For use after Chapters 5-7

## Tell whether the number is prime, composite, or neither.

1. 34
2. 17
3. 1

## Write the prime factorization of the number.

4. 50
5. 56
6. 207

Find the GCF of the numbers.
7. 28,42
8. 70,105
9. $30,42,54$

## Complete the statement.

10. $\frac{?}{9}=\frac{42}{54}$
11. $\frac{7}{?}=\frac{35}{60}$
12. $\frac{8}{9}=\frac{?}{81}$

Find the LCM of the numbers.
13. 24,60
14. 14,21
15. $6,8,12$
16. Three different brands of fettuccini noodles were measured.

The thicknesses of noodles from the brands were $\frac{7}{32}$ inch, $\frac{3}{16}$ inch, and $\frac{2}{8}$ inch. Put the fractions in order from least to greatest.
17. Write $\frac{19}{4}$ as a mixed number and as a decimal.
18. Write 5.4 as a mixed number in simplest form and as an improper fraction.
19. Write three and two eighths as a decimal and as an improper fraction.

## Estimate the sum or difference.

20. $1 \frac{1}{10}+\frac{9}{11}$
21. $\frac{7}{8}-\frac{2}{5}$
22. $3 \frac{3}{11}-1 \frac{4}{9}$

## Find the sum or difference.

23. $\frac{1}{7}+\frac{2}{7}$
24. $\frac{7}{8}+\frac{3}{4}$
25. $3 \frac{5}{7}-1 \frac{3}{7}$
26. $4 \frac{1}{3}+2 \frac{5}{12}$
27. $1 \frac{2}{3}-\frac{5}{6}$
28. $2 \frac{1}{6}-1 \frac{1}{4}$
29. You cut $3 \frac{1}{4}$ acres of grass on Saturday and $2 \frac{2}{5}$ acres on Sunday. How much grass did you cut?

## Answers

1. 
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. 
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. 
11. 

$\qquad$
12.
13. $\qquad$
14. $\qquad$
15.
16.
17.
18.
19.
20.
21.
22. $\qquad$
23. $\qquad$
24. $\qquad$
25.
26.
27. $\qquad$
28.
29. $\qquad$
$\qquad$

Continued

## Unit 2 Test

For use after Chapters 5-7

## Add or subtract the measures of time.

30. $\quad 5 \mathrm{~h} 47 \mathrm{~min}$
$+2 \mathrm{~h} 29 \mathrm{~min}$
31. 7 h 15 min 35 sec

- 3 h 30 min 42 sec

32. A preschool child attends school from 9:15 A.M. to 1:35 P.M. How long is she in school?

Find the product.
33. $\frac{2}{3} \times \frac{7}{9}$
34. $\frac{3}{4} \times \frac{8}{15}$
35. $7 \times \frac{2}{5}$
36. $1 \frac{2}{3} \times \frac{5}{6}$
37. $\frac{7}{8} \times 2 \frac{2}{7}$
38. $3 \frac{1}{3} \times 2 \frac{2}{5}$
39. Estimate the product $\frac{3}{5} \times 26$.
40. Evaluate the expression $\frac{5}{6} x$ when $x=\frac{3}{4}$.

Find the quotient.
41. $\frac{2}{5} \div \frac{3}{8}$
42. $\frac{2}{3} \div \frac{8}{9}$
43. $7 \div \frac{3}{5}$
44. $1 \frac{4}{5} \div 12$
45. $2 \frac{1}{3} \div 1 \frac{1}{7}$
46. $4 \frac{2}{3} \div 3 \frac{1}{2}$
47. You need to travel 250 miles in $4 \frac{1}{6}$ hours. If you travel at a steady speed, how many miles should you travel per hour?

Tell whether the measurement is a weight, a capacity, or a length.
48. $1 \frac{3}{16}$ inches
49. 6 fluid ounces

## Complete the statement.

50. $5 \mathrm{lbs} 4 \mathrm{oz}=$ $\qquad$ oz
51. 3 yd $2 \mathrm{ft}=$ $\qquad$ ft

## Answers

30. 
31. 
32. $\qquad$
33. $\qquad$
34. 
35. 
36. 
37. $\qquad$
38. $\qquad$
39. $\qquad$
40. $\qquad$
41. $\qquad$
42. $\qquad$
43. $\qquad$
44. $\qquad$
45. 
46. $\qquad$
47. $\qquad$
48. $\qquad$
49. $\qquad$
50. $\qquad$
51. $\qquad$
$\qquad$
52. In a choir, 17 of the 50 members are tenors. Write the ratio three different ways.

## Complete the statement.

2. $\frac{15 \mathrm{lb}}{\$ 3}=\frac{30 \mathrm{lb}}{?}$
3. $\frac{120 \mathrm{mi}}{6 \mathrm{~h}}=\frac{?}{18 \mathrm{~h}}$
4. $\frac{?}{10 \mathrm{sec}}=\frac{7 \mathrm{~m}}{40 \mathrm{sec}}$
5. A computer programmer types 75 words in 5 minutes. Write the unit rate.

## Solve the proportion.

6. $\frac{x}{6}=\frac{13}{39}$
7. $\frac{14}{35}=\frac{y}{10}$
8. $\frac{64}{z}=\frac{16}{18}$
9. A model boat is 6 inches long. If the scale is 2 in : 5 ft , how long is the actual boat?

## Write the decimal or fraction as a percent.

10. 0.36
11. 0.02
12. $\frac{14.2}{100}$
13. $\frac{2}{5}$
14. $\frac{3}{25}$
15. $\frac{3}{8}$
16. A survey at a middle school said that $\frac{3}{5}$ of the students had a computer at home. What percent of students did not have a computer at home?

## Find the percent of the number.

17. $75 \%$ of 12
18. $20 \%$ of 60
19. $16 \%$ of 15
20. An amusement park is offering tickets to schools at a $20 \%$ discount. If tickets are normally $\$ 36$, how much will they cost?

## Sketch the figure described.

21. $\overrightarrow{X Y}$
22. $\angle A B C$
23. $\overleftrightarrow{M N}$

## Answers

1. 
2. $\qquad$
3. $\qquad$
4. $\qquad$
5. $\qquad$
6. 
7. $\qquad$
8. $\qquad$
9. $\qquad$
10. 
11. $\qquad$
12. $\qquad$
13. $\qquad$
14. $\qquad$
15. 
16. $\qquad$
17. $\qquad$
18. $\qquad$
19. 
20. 
21. $\qquad$
22. $\qquad$
23. $\qquad$
24. 
25. $\qquad$
26. Find the measure of an angle that is complementary to an angle measuring $42^{\circ}$.
27. Tell whether the angle measures $62^{\circ}, 62^{\circ}$, and $56^{\circ}$ are those of a triangle. If so, classify the triangle as acute, right, or obtuse.

Name $\qquad$
$\qquad$

## Find the value of $\boldsymbol{x}$.

26. 


27.

28. Sketch a rectangle that is also a rhombus. Then draw the lines of symmetry.
29. $\triangle R S T$ is congruent to $\triangle F G H$. List the corresponding parts.
30. What type of triangle has 3 lines of symmetry?
31. Find the circumference of a circle that has a radius of 200 inches.

Find the area of the figure.
32.

33.


## Classify the solid.

34. 


35.

36. Count the faces, edges, and vertices of the solid in Exercise 34.

## Find the surface area and the volume of the prism.

37. 


38.

39. A picnic cooler has a volume of 10 cubic feet. If the length and the height of the cooler are both 2 feet, how wide is the cooler?

Name $\qquad$
$\qquad$

For use after Chapters 11-13

1. Order the integers $-1,-7,0,3,-2$ from least to greatest.

## Find the absolute value of the number.

2. -10
3. 13
4. -25

Find the sum or difference.
5. $-21+17$
6. $19+(-31)$
7. $-17+(-23)$
8. $13-(-23)$
9. $-27-32$
10. $24-(-6)$

Find the product or quotient.
11. $11(-8)$
12. $-11(0)$
13. $-6(-12)$
14. $64 \div(-8)$
15. $-35 \div 5$
16. $-32 \div(-4)$


Tell whether the transformation is a translation, a reflection in the $x$-axis, a reflection in the $y$-axis, or a rotation.
18.

19.


## Write the sentence as an equation.

20. A number $m$ decreased by 7 is 9 .
21. A number $j$ divided by 6 is 5 .
22. Make a box-and-whisker plot of the data $21,8,12,17,11,35$, $22,24,31,19$, and 25.

## Answers

1. 
2. 
3. 
4. 
5. 
6. 
7. $\qquad$
8. 
9. $\qquad$
10. 
11. 
12. $\qquad$
13. $\qquad$
14. $\qquad$
15. 
16. 
17. $\qquad$ See graph.
18. 
19. 
20. 
21. $\qquad$
22. $\qquad$
$\qquad$

## Unit 4 Test

For use after Chapters 11-13

## Solve the equation.

23. $x+16=31$
24. $72=50+z$
25. $27=y-9$
26. $w-36=17$

## Solve the equation.

27. $24 w=72$
28. $\frac{z}{10}=110$
29. $16=0.5 x$
30. $4=\frac{y}{12}$
31. Complete the input-output table using the function rule $y=4 x-6$ and the input values $x=2,3$, and 5 . Then graph the function.

| input $\boldsymbol{x}$ | output $\boldsymbol{y}$ |
| :--- | :--- |
|  |  |
|  |  |
|  |  |



A bag contains 8 tiles labeled 1, 3, 4, 5, 9, 10, 12, and 13. You randomly choose one tile. Find the probability of the event.

## Answers

23. $\qquad$
24. $\qquad$
25. $\qquad$
26. $\qquad$
27. $\qquad$
28. 
29. 
30. $\qquad$
31. See left.
32. 
33. 
34. $\qquad$
$\qquad$
$\qquad$
35. $\qquad$
36. $\qquad$
37. The tile has an even number.
38. The number is a multiple of 5 .
39. You visit the zoo but only have time to visit 2 animals. You can see a lion, tiger, monkey, yak, or zebra. Use the first letters of the animal names to list all the combinations of 2 animals you can visit.

## Each spinner is divided into equal parts. You spin the spinners. Find the probability of the event.

35. You spin two 3's.
36. You spin a sum of 6 .


McDougal Littell Math, Course 1

