

Simplify.

| |
|------------------------------------|
| 1. $5 \times (1 + 3) + 702 \div 3$ |
|------------------------------------|

Use the Distributive Property to find each product.

| | | |
|------------------------------------|-------------------------|-------------------|
| 11. $(3 \times 30) + (3 \times 5)$ | 12. $4 \times (30 + 9)$ | 13. 9×63 |
|------------------------------------|-------------------------|-------------------|

Solve each equation.

| | | |
|-----------------|--------------------|------------------------|
| 19. $7 = k - 3$ | 20. $89 + p = 156$ | 21. $19 = \frac{s}{5}$ |
|-----------------|--------------------|------------------------|

Complete.

| | | | | | | | | | |
|-----|--|-----|--|-----|---|-----|---|-----|---|
| 28. | 84.2 $\times 0.27$ <hr style="width: 50%; margin: 0 auto;"/> | 29. | 1.4 $\times 31.04$ <hr style="width: 50%; margin: 0 auto;"/> | 30. | 244.2 $\times 562.21$ <hr style="width: 50%; margin: 0 auto;"/> | 31. | 8.89 $\times 3.9$ <hr style="width: 50%; margin: 0 auto;"/> | 32. | 9.18 $\times 155.3$ <hr style="width: 50%; margin: 0 auto;"/> |
|-----|--|-----|--|-----|---|-----|---|-----|---|

Divide. Add up to 3 zeros in the dividend to solve each division problem.

| | | | | | |
|-----|----------------------|-----|---------------------|-----|----------------------|
| 42. | $8 \overline{)8.11}$ | 43. | $2 \overline{)2.6}$ | 44. | $4 \overline{)6.27}$ |
|-----|----------------------|-----|---------------------|-----|----------------------|

Solve for the unknown value in each equation.

| | | |
|---------------------|---------------|---------------------|
| 48. $21 \div y = 7$ | 49. $3t = 63$ | 50. $x \div 6 = 13$ |
|---------------------|---------------|---------------------|

Solve for the unknown.

66. $9.23 = 28.83 - u$

67. $8.69606 = x - 17.30394$

Order the numbers from greatest to least.

70. $\frac{40}{100}$, $\frac{4}{10}$, 0.47

71. $\frac{45}{100}$, 0.006, 0.6

Simplify.

76. $98.4 - 3.46 + (24.3 - 5)$

77. $(72.41 + 5.6) - (3.13 + 28) - 2$

Convert each quantity to the given units.

18. 3 T = _____ lb

19. 120 in = _____ ft

20. 38 pt = _____ qt

21. 8 mi = _____ ft

22. 24 qt = _____ gal

23. 21 yd = _____ ft

24. 15 lb = _____ oz

25. 128,000 oz = _____ T

26. 26 qt = _____ fl oz

Complete the function table.

28. Rule: $d = 75 \div h$

| | | | | | | |
|--------|----------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Input | h | 5 | 75 | 1 | 25 | 3 |
| Output | d | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Complete.

| | |
|--|---|
| <p>29. Joshua loves to roller skate. He goes every weekend and skates as much as he can. Since he skated so much, he decided to buy his own skates. He looked at several stores and found a pair he liked for \$85.99. He has \$241.35 in his savings account. If he takes out the money to buy the shoes, how much money will be left in his savings account?</p> | <p>30. Steven has \$7.77 to spend on a new shirt at a store in Sydney. He likes a shirt that costs \$13.99. How much money does he need to borrow to buy the shirt that he likes?</p> |
|--|---|

Divide. Write your answer as a mixed number in simplest form.

| | | | |
|---|---|---|---|
| <p>39. $10 \div \frac{7}{8} =$</p> | <p>40. $\frac{5}{12} \div 6 =$</p> | <p>41. $\frac{9}{11} \div \frac{10}{11} =$</p> | <p>42. $2\frac{2}{4} \div \frac{4}{8} =$</p> |
|---|---|---|---|

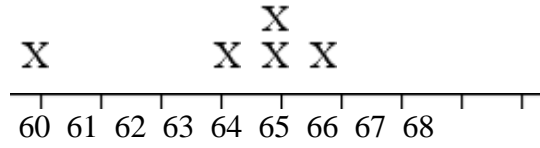
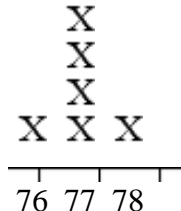
Write each as a fraction.

| | | |
|-----------|---------------------------|----------------------------------|
| 47. 45.55 | 48. seven and five tenths | 49. thirty-five and eight tenths |
|-----------|---------------------------|----------------------------------|

Complete by evaluating each expression.

| | | |
|---|--|--|
| <p>53. $5(19 - j)$ for $j = 10$</p> | <p>54. $s \div 7$ for $s = 21$</p> | <p>55. $7q$ for $q = 52$</p> |
|---|--|--|

Find the median for each set of data.

| | |
|--|---|
| <p>59.</p>  | <p>60.</p>  |
|--|---|

Divide.

| | | |
|-------------------|-------------------|-------------------|
| 69. $4.32 \div 9$ | 70. $4.90 \div 5$ | 71. $2.25 \div 9$ |
|-------------------|-------------------|-------------------|

To the nearest tenth, find the area of each circle. Use 3.14 for π .

13. radius = 12.78 cm

14. radius = 29.488 mm

Write each mixed number as an improper fraction in simplest form.

| | | | |
|--------------------|---------------------|---------------------|--------------------|
| 15. $5\frac{3}{4}$ | 16. $1\frac{7}{12}$ | 17. $2\frac{8}{19}$ | 18. $3\frac{1}{6}$ |
|--------------------|---------------------|---------------------|--------------------|

Order each set from greatest to least.

| | |
|---|--|
| 23. $\frac{31}{100}$ 41:100 41:50 $\frac{4}{5}$ 0.20 0.21 | 24. 49% 64% 99:100 23:25 $\frac{49}{50}$ 97% |
|---|--|

Find the value of y.

| | | | |
|--|--|---|---|
| 27. $2\frac{y}{2} \times \frac{5}{6} = 2\frac{1}{12}$ y = _____ | 28. $\frac{1}{2} \times 2\frac{1}{y} = 1\frac{1}{18}$ y = _____ | 29. $\frac{1}{y} \times 1\frac{3}{4} = \frac{7}{12}$ y = _____ | 30. $10 \times \frac{2}{3} = 6\frac{y}{3}$ y = _____ |
|--|--|---|---|

Fill in the missing value. Assume simple interest.

| | |
|---|--|
| 35. principal _____ interest rate 6.89% time 58 months simple interest \$95,634.39 | 36. principal \$79,012 interest rate 4.6% time _____ simple interest \$1,817.28 |
|---|--|

Find the measure of the angle.

| | | |
|--|--|---|
| 46. $m\angle ZTD =$ _____ $m\angle ZTH = 50^\circ$ | 47. $m\angle TYD =$ _____ $m\angle HYU = 56^\circ$ | 48. $m\angle MLP =$ _____ $m\angle PLU = 135^\circ$ |
|--|--|---|

Write an integer to represent each description.

| | |
|---|-----------------------------|
| 49. 13 units to the right of -3 on a number line. | 50. A pay cut of \$5,500. |
| 51. One hundred forty-two feet above sea level. | 52. A gain of seven pounds. |

Compare. Write <, >, or =.

| | | |
|--------------------|------------------|--------------------|
| 74. 5.24 _____ | 5.100 _____ | 75. 4.310 _____ |
| 76. 11.8780 _____ | 11.87605 _____ | 77. 9.31 _____ |
| 78. 0.000030 _____ | 0.00000050 _____ | 79. 8.881977 _____ |

Find the sum. Write your answer as a mixed number in simplest form.

| | | | |
|------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|
| 25. $\frac{3}{5} + \frac{5}{10} =$ | 26. $\frac{2}{3} + \frac{4}{6} =$ | 27. $\frac{5}{9} + \frac{3}{6} =$ | 28. $\frac{2}{4} + \frac{2}{12} =$ |
|------------------------------------|-----------------------------------|-----------------------------------|------------------------------------|

Complete the function table.





| 33. $y = 2x + 1$ | 34. $y = 3x$ | 35. $y = 5 - 4x$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|------------------|---|--|---|--|---|--|---|--|---|---|---|---|--|---|--|---|--|---|--|---|---|---|---|--|---|--|---|--|---|--|
| <table border="1"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>0</td><td></td></tr> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> </tbody> </table> | x | y | 0 | | 1 | | 2 | | 3 | | <table border="1"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>0</td><td></td></tr> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> </tbody> </table> | x | y | 0 | | 1 | | 2 | | 3 | | <table border="1"> <thead> <tr><th>x</th><th>y</th></tr> </thead> <tbody> <tr><td>0</td><td></td></tr> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> </tbody> </table> | x | y | 0 | | 1 | | 2 | | 3 | |
| x | y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| x | y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Complete. Numbers are rounded to the nearest hundredth of a percent.

| | | |
|--|--|--|
| 52. fraction _____ decimal _____ percent 50% | 53. fraction $\frac{1}{5}$ decimal _____ percent 20% | 54. fraction _____ decimal 5.4 percent _____ |
|--|--|--|

| | | |
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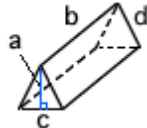
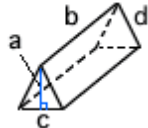
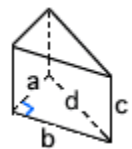
Classify each triangle as isosceles, scalene, or equilateral and as right, acute, or obtuse.

| | | | |
|--|--|---|--|
| 55.  _____ | 56.  _____ | 57.  _____ | 58.  _____ |
|--|--|---|--|

Find the mean for each set of data.

| 59. <table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Stem</th> <th style="padding: 5px;">Leaves</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">5</td> <td style="padding: 5px;">2 0 0 0</td> </tr> <tr> <td style="text-align: center; padding: 5px;">6</td> <td style="padding: 5px;">0 2</td> </tr> <tr> <td style="text-align: center; padding: 5px;">7</td> <td style="padding: 5px;">3 6 3 1 6</td> </tr> </tbody> </table> | Stem | Leaves | 5 | 2 0 0 0 | 6 | 0 2 | 7 | 3 6 3 1 6 | 60. <table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Stem</th> <th style="padding: 5px;">Leaves</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">34</td> <td style="padding: 5px;">9</td> </tr> <tr> <td style="text-align: center; padding: 5px;">35</td> <td style="padding: 5px;">7 8 0</td> </tr> <tr> <td style="text-align: center; padding: 5px;">36</td> <td style="padding: 5px;">5 1 0</td> </tr> <tr> <td style="text-align: center; padding: 5px;">37</td> <td style="padding: 5px;">2</td> </tr> </tbody> </table> | Stem | Leaves | 34 | 9 | 35 | 7 8 0 | 36 | 5 1 0 | 37 | 2 |
|---|-----------|--------|---|---------|---|-----|---|-----------|--|------|--------|----|---|----|-------|----|-------|----|---|
| Stem | Leaves | | | | | | | | | | | | | | | | | | |
| 5 | 2 0 0 0 | | | | | | | | | | | | | | | | | | |
| 6 | 0 2 | | | | | | | | | | | | | | | | | | |
| 7 | 3 6 3 1 6 | | | | | | | | | | | | | | | | | | |
| Stem | Leaves | | | | | | | | | | | | | | | | | | |
| 34 | 9 | | | | | | | | | | | | | | | | | | |
| 35 | 7 8 0 | | | | | | | | | | | | | | | | | | |
| 36 | 5 1 0 | | | | | | | | | | | | | | | | | | |
| 37 | 2 | | | | | | | | | | | | | | | | | | |

Find the surface area of each solid to the nearest tenth. (use $\pi = 3.14$)

| | | |
|---|---|---|
| 65.  $a = 40 \text{ mm}$ $b = 56 \text{ mm}$ $c = 18 \text{ mm}$ $d = 41 \text{ mm}$ | 66.  $a = 12 \text{ cm}$ $b = 19 \text{ cm}$ $c = 10 \text{ cm}$ $d = 13 \text{ cm}$ | 67.  $a = 8 \text{ in}$ $b = 15 \text{ in}$ $c = 8.7 \text{ in}$ $d = 17 \text{ in}$ |
|---|---|---|

Simplify.

| | |
|------------------------------|-------------------------------------|
| 68. $95 - (49.3 + 4.4 + 12)$ | 69. $94.4 + 4.62 - 5.8 - 21.5 + 13$ |
|------------------------------|-------------------------------------|

Find the probability.

72. A number from 22 to 29 is drawn at random.
P(a number divisible by 2)
Express the probability as a percent. Round to the nearest percent.

73. You roll a number cube numbered from 1 to 6.
P(a composite number)
Express the probability as a decimal. Round to the nearest hundredth.