

Write the digit for the given place value in the whole number.

- 1) 2,656,817
millions
thousands

Identify the digit with the given place value.

- 2) 6,458.111
hundreds
- 3) 989.581
hundredths

Identify the number as prime, composite, or neither.

- 4) 41

Find all the factors for the number.

- 5) 45

Write the number in prime factored form.

- 6) 165

Round the number to the nearest ten, nearest hundred, and nearest thousand.

- 7) 6370

Round the number to the place indicated.

- 8) Round to the nearest hundredth: 414.84848

You are on a shopping trip. The store will round the amount you pay for each item to the nearest cent. Find the amount you will pay in each instance.

- 9) Compact disks are 3 for \$17.03, so one CD is \$ 5.6767. You pay:

Simplify the expression by using the order of operations.

10) $6 \cdot 7 + 7(5 - 4) + 6$

Simplify the expression by using order of operations.

11) $20 \div 4 \cdot 7 \cdot 20 \div (19 - 14)$

Simplify.

12) $\frac{6(2 + 7) + 6(3)}{6(4 - 1)}$

Find the sum.

13) $1.205 + 6.5$

Find the difference.

14) $7.002 - 4.316$

15) $19.47 - 11.598$

Use your estimation skills to pick the most reasonable answer. Do not solve the problem.

16) $4.2 - 0.05$

A) 4.15

B) 0.415

C) 41.5

Multiply.

17) $\begin{array}{r} 729 \\ \times 0.423 \\ \hline \end{array}$

18) $0.0096(7.6)$

19) 0.009×0.5

Even with most of the problem missing, it is possible to tell whether a suggested answer is reasonable. Determine whether the answer given is reasonable. If it is unreasonable, move the decimal point or insert a decimal point to make the answer reasonable.

- 20) How long did it take her to walk a mile? 1.9 minutes

Solve the problem.

- 21) A stockbroker sold 35 shares of stock for \$18.13 each. What was the total amount of the sale?

Decide if the answer is reasonable or unreasonable by rounding the numbers and estimating the answer. If the answer is not reasonable, find the correct answer.

22) $82.6 \div 78.8 = 10.48$

Perform the indicated operation .

23) $.02 \overline{)2.85}$

Write the fraction or mixed number as a decimal. Round to the nearest thousandth if necessary.

24) $\frac{5}{8}$

Write the decimal as a fraction or mixed number in lowest terms.

25) 0.82

Arrange in order from smallest to largest.

26) 0.051, 0.015, 0.011, 0.055

Provide an appropriate response.

27) Write eight and seventeen hundredths using numbers.

Write as a decimal.

28) 63.4%

Write as a percent. Round the percent to the nearest tenth if necessary.

29) 8

Write the mixed number as an improper fraction. Reduce answer to lowest terms when necessary.

30) $2\frac{3}{8}$

Write the improper fraction as a whole or mixed number.

31) $\frac{9}{2}$

Write the numerator and denominator of the fraction as a product of prime factors and divide by the common factors. Then write the fraction in lowest terms.

32) $\frac{18}{36}$

Rewrite the fraction with the indicated denominator.

33) $\frac{15}{9} = \frac{?}{18}$

Determine whether the pair of fractions is equivalent or not equivalent.

34) $\frac{7}{8}$ and $\frac{15}{16}$

Write < or > to make a true statement.

35) $\frac{1}{5}$ — $\frac{2}{11}$

Find the least common multiple for the set of numbers.

36) 4 and 6

Add. Write the answer in lowest terms and as a mixed number if possible.

37) $\frac{5}{19} + \frac{7}{19}$

38) $\frac{3}{8} + \frac{3}{8}$

Subtract. Write the answer in lowest terms and as a mixed number if possible.

39) $\frac{3}{21} - \frac{1}{21}$

Add. Write your answer in lowest terms.

40) $\frac{3}{5} + \frac{1}{7}$

41) $\frac{1}{4} + \frac{5}{12}$

Subtract the fractions. Write the answer in lowest terms.

42) $\frac{4}{5} - \frac{3}{20}$

Add. Write the answer in lowest terms as a mixed number.

43) $3\frac{6}{7} + 1\frac{1}{7}$

Subtract. Write the answer in lowest terms as a mixed number.

$$44) \quad 15\frac{5}{16} - 6\frac{3}{8}$$

Multiply. Write the answer in lowest terms.

$$45) \quad \frac{1}{6} \cdot \frac{5}{7}$$

$$46) \quad \frac{1}{10} \cdot \frac{5}{9}$$

Multiply. Write the answer in lowest terms and as a whole or mixed number where possible.

$$47) \quad 22 \cdot \frac{5}{6}$$

$$48) \quad 25 \cdot \frac{2}{5}$$

Find the reciprocal.

$$49) \quad \frac{3}{10}$$

$$50) \quad 5$$

Divide. Write the answer in lowest terms and as a whole or mixed number where possible.

$$51) \quad \frac{3}{4} \div \frac{8}{5}$$

$$52) \quad 8 \div \frac{5}{4}$$

Multiply. Write the answer in lowest terms and as a whole or mixed number where possible.

$$53) \quad 2\frac{5}{8} \cdot 3\frac{3}{7}$$

Divide. Write the answer in lowest terms and as a whole or mixed number where possible.

$$54) \quad 2\frac{2}{7} \div \frac{2}{7}$$

Provide an appropriate response.

55) One way to determine if two fractions are equivalent is to use _____.

Write < or > between the pair of numbers to make the statement true.

$$56) \quad 9 \quad 4$$

$$57) \quad -28 \quad -24$$

Simplify.

$$58) \quad -5 + 20$$

$$59) \quad -5 + (-9)$$

$$60) \quad -2 - 15$$

$$61) \quad 8 - (-2)$$

$$62) \quad 1 - 12$$

$$63) \quad -8.8 + (-7.8)$$

$$64) \quad -9.2 + 5.1$$

Follow the order of operations to work the problem.

$$65) \quad -23 - (-1 - 10) - 6$$

Simplify.

$$66) \quad 2 - (-9)(-3)^2$$

Follow the order of operations to work the problem.

$$67) \quad -18 + |-16| - 21$$

Multiply.

$$68) \quad -7 \cdot (-18)$$

$$69) \quad (-1)(7)$$

Divide.

$$70) \quad \frac{-84}{6}$$

71) $\frac{0}{-33}$

Use the given values of the variables to find the value of the expression.

72) $2x + 5y$ for $x = 8, y = 6$

73) $2(-5x + 5y)$ for $x = 4, y = 1$

Find the mean for the list of numbers.

74) Ages of patients (in years) in a clinic: 20, 6, 23, 20
Round answer to the nearest whole number if necessary.

Find the median for the data given.

75) Newspapers delivered each day: 95, 83, 222, 181, 278, 230, 230

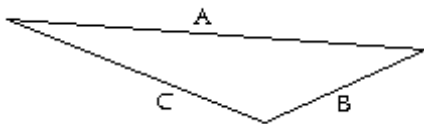
76) Number of phone calls made each day: 10, 3, 23, 20, 29, 42, 39, 33

Find the mode or modes for the list of numbers.

77) Ages of parents (in years) at the school: 20, 38, 46, 38, 49, 38, 49

For the given figure, find the ratio of the length of the longest side to the length of the shortest side. Write the ratio as a fraction in lowest terms.

78)



A = 13 inches
B = 6 inches
C = 12 inches

Solve the problem. Write ratios in lowest terms.

79) Bob is 35 years old, and Susan is 40 years old. Find the ratio of his age to hers.

Find the cross product and determine whether the proportion is true or false.

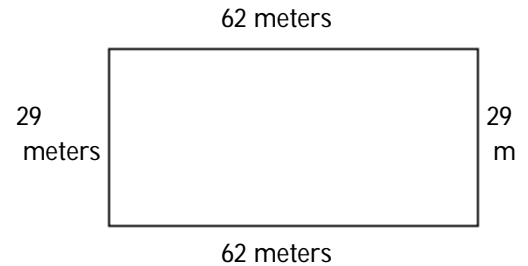
80) $\frac{3}{14} = \frac{6}{28}$

Write the number as indicated.

81) A certain exotic sportscar costs three hundred twelve thousand, seven hundred ninety-four dollars. Write the number using digits.

Find the perimeter.

82) A concrete curb is to be built around a parking lot. How many meters of curbing will be needed?



Solve the problem.

83) Gina is buying a used car that has an advertised price of \$3500. She is buying the car on credit and must make a down payment of \$400 and 24 monthly payments of \$115. What is the total cost of the car?

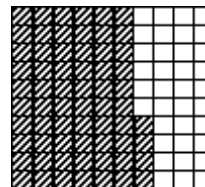
Provide an appropriate response.

84) Write the smallest five-digit number possible using the digits 5, 2, and 7. Use each digit at least once.

85) When any nonzero number is divided by 0, the result is _____.

Write a percent for both the shaded and unshaded parts of the figure.

86)



Provide an appropriate response.

87) When any nonzero number is divided by 1, the result is _____.

Use a proportion to solve the problem.

- 88) If a spring stretches 6 meters when a 8-kilogram weight is attached to it, how much will it stretch when a 56-kilogram weight is attached to it?
- 89) The ratio of the height to the width of a packaging label is 5 to 19. If the height of the label is 3 inches, what is its width?

Provide an appropriate response.

- 90) What is the rule for multiplying a decimal number by 1000?
- A) Move the decimal 3 places to the left
B) Move the decimal 4 places to the left
C) Move the decimal 3 places to the right
D) Move the decimal 4 places to the right

Solve the problem.

- 91) The parking lot at a medical center has 75 cars in it. 92% of the cars are four-door. How many cars are four-door?
- 92) It is determined that 25% of the student body of Piper School attended an after-school assembly. If 159 students attended the assembly, how many students are enrolled at the school?
- 93) 108 students attended an assembly at Piper School. The student enrollment at the school is 432. What percentage of the students attended the assembly?
- 94) Last year the hatch-back model of a new car cost \$17,135. This year's model costs \$18,273. How much more does this year's model cost?
- 95) A particular freight elevator can safely carry 1080 pounds. How many 120-pound bundles of wood can be safely carried by this elevator?
- 96) David's company has to ship 3300 boxes of sprinklers. If a truck can hold 550 boxes, how many truckloads does he need to ship all the boxes?

- 97) A salesperson earned \$325 a week plus a bonus of \$15 for each service contract sold. What is the weekly pay if 8 service contracts were sold?

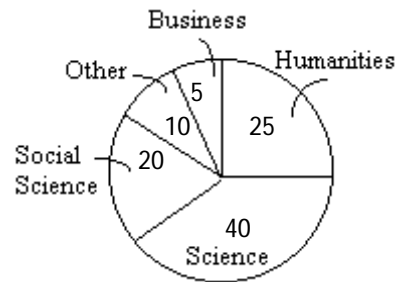
- 98) David's net pay for a week at the video store was \$77.44. If he worked 16 hours that week, what was his net pay rate?

Find the unit rate.

- 99) 352 miles on 16 gallons of gas

Use the circle graph to solve the problem. Give your answer as a fraction, decimal, and as a percent.

100)



The circle graph below shows the majors for 100 college students at Blackwood Community College. What portion of the students are majoring in science?