

MATH TEST 1

Choose the best possible answer to each of the following questions. Circle the answer.

- Rosalee's children's shoes cost \$10.95, \$11.98, and \$14.95. The total spent was
 - \$30.88
 - \$37.78
 - \$37.88
 - \$39.88
- What is the selling price of a \$7,000 car if a discount of 10% is offered?
 - \$700
 - \$6,100
 - \$6,300
 - \$7,700
- The sum of $\frac{4}{8}$, $\frac{5}{6}$, and $\frac{2}{3}$ is
 - $1\frac{11}{12}$
 - 2
 - $2\frac{3}{16}$
 - none of the above
- Robert lives 5 miles north of town, and James lives 6 miles south of George, who lives 2 miles north of town. How far is it from James's house to Robert's house?
 - 9 miles
 - 13 miles
 - 3 miles
 - none of the above
- What is the area of a circle which has a diameter of 9 inches?
 - 63.62 sq in
 - 81 sq in
 - 29 sq in
 - 28 sq in
- If $a = 10$, $b = 5$, and $c = 3$, solve $ab - 3a + c$.
 - 37
 - 23
 - 6
 - none of the above
- $B \subset A$ where $B = \{6, 13, 74\}$ and $A =$
 - $\{5, 12, 32, 72\}$
 - $\{12, 21, 6, 94, 74, 2, 13\}$
 - $\{4, 6, 10, 13, 22\}$
 - $\{16, 2\}$

TEST 2

Choose the best possible answer to each of the following questions. Circle the answer.

- Which of the following sets is a subset of $\{2, 4, 6, 8, 10\}$?
 - $\{2, 9, 7, 5\}$
 - $\{5, 7, 9, 11, 13\}$
 - $\{1, 2, 3\}$
 - $\{2, 8, 6\}$
- The result obtained when one number is divided by another number is called the
 - subtrahend
 - sum
 - quotient
 - product
- If Brenda spends $\frac{1}{3}$ of her monthly income on rent, and she is paid \$455 bimonthly, how much is her rent?
 - \$203.33
 - \$303.33
 - \$313.66
 - none of the above
- Leroy sold his tobacco crop in three different markets. In market A, his tobacco brought 68 cents per pound; in market B, 57 cents per pound; in market C, 79 cents per pound. What was the average price per pound he received for his crop?
 - \$2.61
 - \$0.91
 - \$0.68
 - none of the above
- A warehouse measuring 150 feet long, 80 feet wide, and 18 feet high contains how many cubic feet of storage space?
 - 216,000
 - 21,600
 - 120,000
 - 2,700
- The area of a rectangle is 105 units. Side AB is 15 units. What is the length of AC?
 - 10
 - 7
 - 44
 - none of the above

TEST 3

Choose the best possible answer to each of the following questions. Circle the answer.

- $A = \{1, 2, 3\}$ and $B = \{2, 3, 4\}$ $A \cap B =$
 - $\{2, 3\}$
 - $\{1, 2, 3, 4\}$
 - \emptyset
 - $\{1, 2, 3\}$
- In the equation $x - 12 = 3$, $x =$
 - 9
 - 12
 - 15
 - 18
- The circle graph above represents a family's monthly income of \$1,020. What percentage of the income is spent on food?
 - 27.46%
 - 45.62%
 - 32.25%
 - 27.45%
- A piece of land between two streets is in the shape of a triangle 160 feet across the base and 90 feet in height. What is the area of this land?
 - 14,400 sq ft
 - 720 sq ft
 - 7,200 sq ft
 - none of the above
- Name the tenth term in the series 1, 3, 5, 7, 9,
 - 19
 - 21
 - 23
 - 25
- If a bank loans \$800 for two years on simple interest of 12% per year, how much will the total amount repaid be?
 - \$988
 - \$990
 - \$992
 - \$994
- What is the capacity in cubic feet of a gasoline tank 6 feet in diameter and 14 feet in height?
 - 395.84 cu ft
 - 792 cu ft
 - 198.61 cu ft
 - none of the above

TEST 4

Choose the best possible answer to each question. Circle the answer.

1. If a mail-order house charges 12¢ per pound to ship three packages weighing 6 pounds, 7 pounds 5 ounces, and 3 pounds 8 ounces, what is the total shipping charge?
 - a. \$2.09
 - b. \$2.08
 - c. \$21.15
 - d. \$21.11
2. If a mail-order house charges 25¢ per kilogram to ship three packages weighing 2.98 kilogram, 3.32 kilograms, and 1.59 kilograms, what is the total shipping charge?
 - a. \$19.72
 - b. \$1.98
 - c. \$1.97
 - d. \$19.73
3. An isosceles triangle has
 - a. all sides equal
 - b. two sides equal
 - c. no sides equal
 - d. one side equal
4. The interior angles of all triangles add up to
 - a. 45°
 - b. 90°
 - c. 180°
 - d. 360°
5. The square, the rectangle, the parallelogram, and the trapezoid are all
 - a. polygons
 - b. octagons
 - c. hexagons
 - d. none of the above
6. The perimeter of all polygons is determined by
 - a. multiplying the base times the height
 - b. multiplying $\frac{1}{2}$ the base times the height
 - c. adding the lengths of all the sides
 - d. none of the above