

Sample Math Skills Test

NOTE: You will not be allowed to use a calculator on the Math Skills Test.

Below are arithmetic sample questions that include addition, subtraction, multiplication, division, fractions, decimals, percentages, and order of operations.

1.
$$\begin{array}{r} 2,317 \\ 955 \\ + \underline{3,187} \end{array}$$

2.
$$\begin{array}{r} 56 \\ \times \underline{93} \end{array}$$

3.
$$\begin{array}{r} 2,205 \\ \div \underline{15} \end{array}$$

4.
$$\begin{array}{r} 5,767 \\ - \underline{158} \end{array}$$

5.
$$\begin{array}{r} 4,383 \\ \div \underline{12} \end{array}$$

6.
$$\begin{array}{r} 3,231 \\ 59 \\ + \underline{880} \end{array}$$

7.
$$\begin{array}{r} 7,676 \\ - \underline{5,858} \end{array}$$

8.
$$\begin{array}{r} 18 \\ \times \underline{436} \end{array}$$

9.
$$\frac{3}{4} + \frac{1}{4} =$$

10.
$$\frac{5}{12} + \frac{1}{4} =$$

11. $35\% \text{ of } 80 =$

12. $1\frac{7}{8} \div 3 =$

13. $9 + 4(10 - 8 \div 4) =$

14. $3\frac{1}{2} \times 1\frac{1}{4} =$

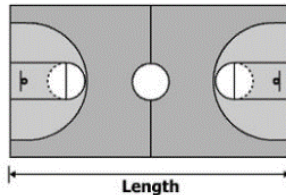
15.
$$\begin{array}{r} 8.10 \\ \times \underline{9.10} \end{array}$$

16.
$$\begin{array}{r} 0.19 \\ \times \underline{1.80} \end{array}$$

Below are sample word problems that include the following arithmetic operations: addition, subtraction, multiplication, division, decimals, percentages, basic algebra, and geometry skills.

17. Stephanie ran 3 miles in 36 minutes. At this rate, what is the total number of minutes it will take Stephanie to run 2 miles?
18. Whitney uses a calculator to figure out the total cost of a \$700 clarinet. Including sales tax, the total is \$763. What is the sales tax percentage?
19. A shopper at a clearance sale discovers computer monitors on sale for \$360 each. The original price for each monitor was \$900. What is the discount, as a percentage?
20. Mr. Hong purchased a condo several years ago at a selling price of \$294,520. Recently it was appraised at a value 12% lower than that. What is the value of the condo now, rounded to the nearest dollar?
21. The cost of a movie ticket is \$9.50. Soft drinks cost \$4.50 each. What is the total cost for 13 people to each purchase a movie ticket and a soft drink?
22. A farmer has determined that 15% of harvested apples are spoiled. If the farmer harvested 200 apples, how many apples will be spoiled?
23. Samuel bought 4 rolls of tape to close boxes. Each roll contains 32.9 meters of tape and he uses 1.2 meters of tape to seal each box. How many boxes can Samuel tape closed with 4 rolls of tape?
- A. 103 boxes
B. 109 boxes
C. 132 boxes
D. 157 boxes
24. Alisha wants to buy a camera that costs \$728, including sales tax. She has saved \$45 each week for the past 8 weeks. How much more money does Alisha need to purchase the camera?
- A. \$260
B. \$328
C. \$360
D. \$368

25. Jessica is purchasing fencing to enclose a station. The station measures 12 feet wide and 15 feet long. What is the least amount of fencing that she will need to enclose the station?
- A. 54 feet
 B. 54 square feet
 C. 180 feet
 D. 180 square feet
27. Which decimal is equivalent to $\frac{3}{5}$?
- A. 0.30
 B. 0.35
 C. 0.53
 D. 0.60
29. What is the area of a right triangle with a base of 4 feet and a height of 8 feet?
- A. 12 square feet
 B. 16 square feet
 C. 24 square feet
 D. 32 square feet
26. Aidan's age is 6 years less than half of Maggie's age. Aidan's age is 4 years. What is Maggie's age?
- A. 2 years
 B. 5 years
 C. 10 years
 D. 20 years
28. Which rule can be used to find the next number in this increasing pattern?
 3, 4, 6, 9, 13, 18, 24, ____
- A. Add 3 to 24
 B. Add 5 to 24
 C. Add 6 to 24
 D. Add 7 to 24
30. The city is building a new outdoor basketball court. Which is most likely the length of the new outdoor basketball court?



- A. 94 inches
 B. 94 feet
 C. 94 centimeters
 D. 94 kilometers