

## Arithmetic

There are 17 questions administered on the Arithmetic test, divided into the following content areas:

- Operations with whole numbers and fractions. Topics include addition, subtraction, multiplication, division, recognizing equivalent fractions and mixed numbers, and estimating.
- Operations with decimals and percents. Topics include addition, subtraction, multiplication, and division with decimals; percent problems; recognition of decimals; percent equivalencies; and estimating.
- Applications and problem solving. Topics include rate, percent and measurement problems; simple geometry problems; and distribution of a quantity into its fractional parts.

## Arithmetic Sample Questions

For each of the questions below, choose the best answer from the four choices given. You may use the paper you received as scratch paper.

1.  $2.75 + 0.003 + 0.158 =$ 
  - A. 0.436
  - B. 2.911
  - C. 2.938
  - D. 4.36
2.  $7.86 \times 4.6 =$ 
  - A. 36.156
  - B. 36.216
  - C. 351.56
  - D. 361.56
3.  $\frac{7}{20} =$ 
  - A. 0.035
  - B. 0.35
  - C. 0.858
  - D. 3.5
4. Which of the following is the least?
  - A. 0.105
  - B. 0.501
  - C. 0.015
  - D. 0.15
5. All of the following are ways to write 25 percent of  $N$  EXCEPT
  - A.  $(0.25)N$
  - B.  $\frac{25}{100} N$
  - C.  $\frac{1}{4} N$
  - D.  $25N$
6. Which of the following is closest to  $27.8 \times 9.6$ ?
  - A. 280
  - B. 300
  - C. 2,800
  - D. 3,000
7. A soccer team played 160 games and won 65 percent of them. How many games did the team win?
  - A. 94
  - B. 104
  - C. 114
  - D. 124

8. There are 3 people who work full-time and are to work together on a project, but their total time on the project is to be equivalent to that of only one person working full-time. If one of the people is budgeted for  $\frac{1}{2}$  of his time to the project and a second person for  $\frac{1}{3}$  of her time, what part of the third worker's time should be budgeted to this project?
- A.  $\frac{1}{8}$   
 B.  $\frac{1}{6}$   
 C.  $\frac{1}{3}$   
 D.  $\frac{3}{5}$
9. 32 is 40% of what number?
- A. 12.8  
 B. 128  
 C. 80  
 D. 800
10.  $3\frac{1}{3} - 2\frac{2}{5} =$
- A.  $\frac{1}{15}$   
 B.  $\frac{14}{15}$   
 C.  $1\frac{1}{15}$   
 D.  $1\frac{1}{2}$
11.  $2\frac{1}{2} + 4\frac{2}{3} =$
- A.  $6\frac{1}{6}$   
 B.  $6\frac{5}{6}$   
 C.  $7\frac{1}{6}$   
 D.  $7\frac{5}{6}$
12. What is  $\frac{1,345}{99}$  rounded to the nearest integer?
- A. 12  
 B. 13  
 C. 14  
 D. 15
13. Three of four numbers have a sum of 22. If the average of the four numbers is 8, what is the fourth number?
- A. 4  
 B. 6  
 C. 8  
 D. 10
14.  $46.2 \times 10^{-2} =$
- A. 0.0462  
 B. 0.462  
 C. 4.62  
 D. 462
15. If  $\frac{3}{2} \div \frac{1}{4} = n$ , then  $n$  is between
- A. 1 and 3  
 B. 3 and 5  
 C. 5 and 7  
 D. 7 and 9
16. What is 12% of 120?
- A. 10  
 B. 14.4  
 C. 18.4  
 D. 28.8
17. A box in a college bookstore contains books, and each book in the box is a history book, an English book or a science book. If  $\frac{1}{3}$  of these books are history books and  $\frac{1}{6}$  are English books, what fraction of the books are science books?
- A.  $\frac{1}{3}$   
 B.  $\frac{1}{2}$   
 C.  $\frac{2}{3}$   
 D.  $\frac{3}{4}$
18. The measures of two angles of a triangle are  $35^\circ$  and  $45^\circ$ . What is the measure of the third angle of the triangle?
- A.  $95^\circ$   
 B.  $100^\circ$   
 C.  $105^\circ$   
 D.  $110^\circ$
19. Erica bought  $3\frac{1}{2}$  yards of fabric. If she uses  $\frac{2}{3}$  of the fabric to make a curtain, how much will she have left?
- A.  $\frac{1}{6}$  yard  
 B.  $\frac{1}{3}$  yard  
 C.  $1\frac{1}{6}$  yards  
 D.  $2\frac{1}{3}$  yards
20. Jen wants to tile the floor of her kitchen. The floor is rectangular and measures 12 feet by 8 feet. If it costs \$2.50 per square foot for the materials, what is the total cost of the materials for tiling the kitchen floor?
- A. \$160  
 B. \$200  
 C. \$220  
 D. \$240