ARITHMETIC

Suggested time – 40 minutes
35 Questions

Directions: In this section solve each problem. Then decide which is the best of the choices given.

1. What is 7.2589 rounded to the nearest hundredth?

(A) 7.26   (B) 7.3   (C) 7.2   (D) 7.25

2. $\dfrac{52}{78} =$

(A) $\dfrac{3}{4}$ (B) $\dfrac{8}{9}$ (C) $\dfrac{2}{3}$ (D) $\dfrac{5}{6}$

3. 1.37 + 9.2 + 5.001 =

(A) 5.23   (B) 6.13   (C) 52.3   (D) 15.571

4. 2.53×3.1 is between

12. $1\frac{2}{3} \times 2\frac{3}{8} =$

(A) $3\frac{23}{24}$ (B) $4\frac{1}{24}$ (C) $2\frac{1}{4}$ (D) $\frac{40}{57}$

13. $\frac{7}{20} =$

(A) 0.305   (B) 0.35   (C) 2.86   (D) 13

14. $\frac{3}{4} - \frac{1}{6} =$

(A) 1   (B) $\frac{2}{24}$ (C) $\frac{2}{3}$ (D) $\frac{7}{12}$

15. If 10 percent of a number is 40, then 25 percent of that number is

20. If eight furlongs measures 320 rods, how many furlongs are in a measure of 600 rods?

(A) 16   (B) 20   (C) 15   (D) 40

A theater was sold out for 85 percent of its performances last season. Once the theater was sold out for 15 performances in a row.

21. From the information above, which of the following can be determined?

    (A) The total number of performances last season that were sold out.
    (B) The number of performances last season that were not sold out.
    (C) The percent of the performances last season that were not sold out.
    (D) The percent of the performances sold out in a row.

22. Three people who work full time are to work together on a project, but their total time in the project is to be equivalent to that of only one person working full time. If one of the people is budgeted for $\frac{1}{3}$ of his time to the project and a second person $\frac{1}{4}$ of her time, what part of the third worker's time should be budgeted to this project?

(A) $\frac{1}{12}$ (B) $\frac{5}{12}$ (C) $\frac{4}{7}$ (D) $\frac{3}{4}$

23. 12.5 percent of 402 is closest to

(A) 35   (B) 40   (C) 50   (D) 480

24. 5.905×100.04 is closest to

(A) 500   (B) 600   (C) 5,000   (D) 6,000

25. In year X the population of a certain city was reported to be 503,200, which represented 82 percent of the state's population. According to these figures, what was the approximate population of the state in year X?

(A) 410,000   (B) 510,000   (C) 610,000   (D) 790,000

26. Which of the following is greater than 0.30 and less than 0.50?

(A) $\frac{1}{8}$ (B) $\frac{2}{5}$ (C) $\frac{3}{5}$ (D) $\frac{4}{5}$

27. How many fifths are there in 2.8?

(A) 140   (B) 14   (C) 5.6   (D) 0.56

28. If $\dfrac{N}{10}$ equals 0.41, then N is approximately

(A) 41   (B) 4   (C) 5   (D) 0.6

31. Which of the following is closest to $\sqrt{4000}$?

(A) 20   (B) 60   (C) 400   (D) 2000

32. A rectangular recreation area 20 meters long and 15 meters wide is to be marked o by putting a rope