

SECTION 4

Time: 40 Minutes

35 Questions

Directions: For each of the following questions, mark the letter of your choice on the answer sheet.

1. $\frac{2}{3} \div \frac{5}{6} =$
(A) $\frac{4}{5}$
(B) $\frac{5}{18}$
(C) $\frac{15}{6}$
(D) $2\frac{1}{2}$
2. If $9 + 3 + \underline{\quad} = 8 + 6 + 4$, then $\underline{\quad} =$
(A) 3
(B) 4
(C) 5
(D) 6
3. $12 + (-6) \times 3 =$
(A) 21
(B) 6
(C) -6
(D) -12
4. Ashley buys 48 apples. There are 12 Red Delicious apples and 16 Granny Smith apples. What fraction of the apples are not Red Delicious or Granny Smith?
(A) $\frac{1}{5}$
(B) $\frac{1}{4}$
(C) $\frac{1}{3}$
(D) $\frac{5}{12}$
5. $12 \div 3\frac{3}{4} =$
(A) $2\frac{2}{3}$
(B) $2\frac{7}{16}$
(C) $3\frac{5}{8}$
(D) $3\frac{1}{5}$
6. Andre had a birthday party and spent \$12.98 on balloons, \$47.23 on party favors, \$22.97 on a cake, \$14.77 on ice cream, and \$15.00 on invitations. How much did Andre spend on the party?
(A) \$87.25
(B) \$112.95
(C) \$125.20
(D) \$127.30
7. Christine spends 2 days a week painting houses and 3 days a week doing carpentry. If she earns \$300 a day for painting and \$240 a day for carpentry, how much does she earn in a week?
(A) \$1,280
(B) \$1,320
(C) \$1,360
(D) \$1,440
8. $102\frac{3}{4}\% =$
(A) 102.75
(B) 10.275
(C) 1.0275
(D) 0.10275
9. If $16 \div 4 \times \underline{\quad} = 5 \times 8 - 16$, then $\underline{\quad} =$
(A) 6
(B) 5
(C) 4
(D) 3
10. $23.4 \div 6 =$
(A) 39
(B) 3.9
(C) 0.39
(D) 0.039
11. A teacher has assigned 315 pages of reading. If Jessica starts reading on Monday and reads 65 pages each day, on what day will she complete the assignment?
(A) Wednesday
(B) Thursday
(C) Friday
(D) Saturday
12. What is 2% of 5,000?
(A) 10
(B) 80
(C) 100
(D) 105
13. Louisa went to the grocery store and bought a package of hamburger patties for \$6.16, a package of buns for \$2.10, a container of mustard for \$1.78, a jar of relish for \$2.16, and a bag of charcoal for \$5.35. What was her total bill?
(A) \$12.64
(B) \$14.74
(C) \$16.15
(D) \$17.55

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14. A \$400 television is on sale for 15% off. What is the sale price?
 (A) \$340
 (B) \$350
 (C) \$375
 (D) \$385

15. Riverside School has 150 fewer students than twice the number of students at Hillside School. If Riverside School has 500 students, how many students attend Hillside School?
 (A) 325
 (B) 300
 (C) 250
 (D) 150

16. If $12a + 4a - 7a = 27$, $a =$
 (A) 1
 (B) 2
 (C) 3
 (D) 4

17. $4\frac{3}{10}\% =$
 (A) 43
 (B) 4.3
 (C) 0.43
 (D) 0.043

18. $\frac{18}{25} =$
 (A) 0.72
 (B) 0.68
 (C) 0.66
 (D) 0.63

19. Kyle can ride his bike 30 km in 2 hours. At the same rate, how far can he ride in 7 hours?
 (A) 90 km
 (B) 105 km
 (C) 125 km
 (D) 130 km

20. A rectangular garden is 40 yards long and 15 yards wide. Darryl runs once around the edge of the garden. How far does Darryl run?
 (A) 55 yards
 (B) 80 yards
 (C) 100 yards
 (D) 110 yards

21. $25\frac{3}{5} \times 1\frac{1}{2} =$
 (A) $38\frac{2}{5}$
 (B) $35\frac{1}{3}$
 (C) $32\frac{2}{3}$
 (D) $30\frac{5}{3}$

22. $18 \div \frac{3}{4} =$
 (A) 3
 (B) 6
 (C) 12
 (D) 24

23. $46\frac{3}{4}\% =$
 (A) 467.5
 (B) 46.75
 (C) 4.675
 (D) 0.4675

24. What is the greatest common factor of 75, 90, and 120?
 (A) 5
 (B) 10
 (C) 15
 (D) 20

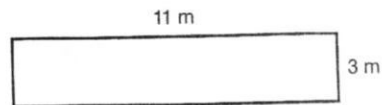
25. In the Northshore Swimming Club, 6 of 48 members are females. What is the ratio of females to males?
 (A) $\frac{3}{16}$
 (B) $\frac{1}{15}$
 (C) $\frac{1}{4}$
 (D) $\frac{1}{7}$

26. Karen is driving to a town 175 miles away. If she drives at a steady speed of 50 miles per hour, how long will the trip take?
 (A) 2 hours 50 minutes
 (B) 3 hours
 (C) 3 hours 10 minutes
 (D) 3 hours 30 minutes

27. If $3.4a + 8.7a = 38.72$, $a =$
 (A) 2.9
 (B) 3.2

- (C) 3.5
 (D) 3.9

28. What is the perimeter of the following rectangle?



- (A) 12 m
 (B) 18 m
 (C) 24 m
 (D) 28 m

29. $\frac{1}{2} + \frac{1}{4} + \frac{3}{16} =$
 (A) $\frac{3}{5}$
 (B) $\frac{5}{6}$
 (C) $\frac{7}{8}$
 (D) $\frac{15}{16}$

30. 60 is approximately what percent of 90?
 (A) 30%
 (B) 33%
 (C) 45%
 (D) 67%

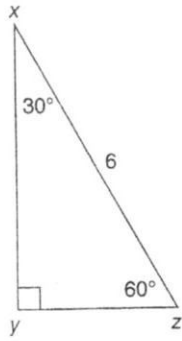
31. What is the least common multiple of 13, 26, and 2?
 (A) 26
 (B) 13
 (C) 7
 (D) 6

32. $3.5 \times 0.93 =$
 (A) 2.886
 (B) 2.965
 (C) 3.255
 (D) 3.311

33. Rosa buys a blouse for \$23.95. The sales tax is 6.5%. What is the total cost of the blouse, including the sales tax?
 (A) \$24.35
 (B) \$24.78
 (C) \$25.20
 (D) \$25.51

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34. What is the length of line segment YZ in triangle XYZ ?



- (A) 3
(B) $3\sqrt{2}$
(C) $3\sqrt{3}$
(D) $6\sqrt{3}$

35. What is the mode of the set of data shown in this stem-and-leaf plot?

| Stem | Leaf |
|------|---------|
| 11 | 4 4 |
| 12 | 3 6 |
| 13 | 2 3 4 7 |
| 14 | |
| 15 | 8 9 |
| 16 | 0 5 8 |

- (A) 168
(B) 158
(C) 134
(D) 114

STOP!

If you finish before time is up, check your work on this section only.