

1. Directions (1-7): Study the following arrangement and answer the questions given below: R 4 T M 7 W % J 9 5 I # 1 P B 2 T A 3 D \$ 6 E N F 8 U H @ How many such vowels are there in the above arrangement, each of which is immediately preceded by a number and not immediately followed by a consonant?

- A. None B. One C. Two D. Three

Answer: B

2. What should come in place of the question mark (?) in the following series based on the above arrangement? TM% 951 B23 ?

- A. \$EF B. \$6F C. D\$N D. \$E8

Answer: B

3. How many such consonants are there in the above arrangement, each of which is neither preceded by a number nor followed by a consonants

- A. None B. One C. Two D. More than three

Answer: D

4. Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

- A. 5J1 B. 7TJ C. 8N@ D. 32\$

Answer: D

5. Which of the following is sixth to the right of the fourteenth from the right end?

- A. 5 B. 6 C. I D. \$

Answer: B

6. How many such consonants are there in the above arrangement, each of which is immediately followed by a symbol but not immediately preceded by another consonant?

- A. None B. One C. Two D. Three

Answer: D

7. Which of the following is the eighth to the left of the sixteenth from the left end?

- A. J B. E C. % D. 6

Answer: A

8. For the following, find the next term in the series 6, 24, 60, 120, 210

A.336 B.360 C.330 D.660

Answer: A

Explanation:

The series is 1.2.3, 2.3.4, 3.4.5, 4.5.6, 5.6.7, ('.' means product)

9. 1, 5, 13, 25

A.33 B.48 C.41 D.30

Answer: C

Explanation:

The series is of the form $0^2+1^2, 1^2+2^2, \dots$

10. 0, 5, 8, 17

A.22 B.24 C.25 D.20

Answer: B

Explanation:

$1^2-1, 2^2+1, 3^2-1, 4^2+1, 5^2-1$

11. A fast typist can type some matter in 2 hours and a slow typist can type the same in 3 hours. If both type combine, in how much time will they finish?

A.2.15 hr B.1.12 hr C.1.23 hr D.1.45 hr

Answer: B

Explanation:

The fast typist's work done in 1 hr = $\frac{1}{2}$ The slow typist's work done in 1 hr = $\frac{1}{3}$ If they work combine , work done in 1 hr = $\frac{1}{2}+\frac{1}{3} = \frac{5}{6}$ So, the work will be completed in $\frac{6}{5}$ hours. i.e., $1+\frac{1}{5}$ hours = 1hr 12 min

12. Gavaskar's average in his first 50 innings was 50. After the 51st innings, his average was 51. How many runs did he score in his 51st innings. (supposing that he lost his wicket in his 51st innings)

A.101 B.105 C.98 D.112

Answer: A

Explanation:

Total score after 50 innings = $50 \times 50 = 2500$ Total score after 51 innings = $51 \times 51 = 2601$ So, runs made in the 51st innings = $2601 - 2500 = 101$ If he had not lost his wicket in his 51st innings, he would have scored an unbeaten 50 in his 51st innings.

13. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:

A.1 : 3 B.3 : 2 C.3 : 4 D.None of these

Answer: B

14. What is the sum of all numbers between 100 and 1000 which are divisible by 14 ?

A.35393 B.35392 C.35352 D.35329

Answer: B

Explanation:

The number closest to 100 which is greater than 100 and divisible by 14 is 112, which is the first term of the series which has to be summed. The number closest to 1000 which is less than 1000 and divisible by 14 is 994, which is the last term of the series. $112 + 126 + \dots + 994 = 14(8+9+ \dots + 71) = 35392$

15. If time at this moment is 9 P.M., what will be the time 23999999992 hours later?

A.12 am B.1 am C.1 pm D.12 pm

Answer: C

Explanation:

24 billion hours later, it would be 9 P.M. and 8 hours before that it would be 1 P.M.

16. I drove 60 km at 30 kmph and then an additional 60 km at 50 kmph. Compute my average speed over my 120 km.

A.37 ½ kmph B.40 kmph C.35 ½ kmph D.38 kmph

Answer: A

Explanation:

Time reqd for the first 60 km = 120 min.; Time reqd for the second 60 km = 72 min.; Total time reqd = 192 min Avg speed = $(60 \times 120) / 192 = 37 \frac{1}{2}$

17. A can do a certain work in the same time in which B and C together can do it. If A and B together could do it in 10 days and C alone in 50 days, then B alone could do it in ___ days.

A.15 days B.20 days C.25 days D.30 days

Answer: C

18. Two trains of equal length are running on parallel lines in the same direction at 46 km/hr and 36 km/hr. The faster train passes the slower train in 36 seconds. The length of each train is:

A.50 m B.72 m C.80 m D.82 m

Answer: A

19. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:

A.15 B.16 C.18 D.25

Answer: B

20. At a party, everyone shook hands with everybody else. There were 66 handshakes. How many people were at the party?

A.11 B.12 C.10 D.13

Answer: A

Explanation:

With two people, there is one handshake. With three people, there are three handshakes. With four people, there are six handshakes. In general, with $n+1$ people, the number of handshakes is the sum of the first n consecutive numbers: $1+2+3+\dots+n$. Since this sum is $n(n+1)/2$, we need to solve the equation $n(n+1)/2 = 66$. This is the quadratic equation $n^2+n-132 = 0$. Solving for n , we obtain 11 as the answer and deduce that there were 12 people at the party.

