

1. A square garden has fourteen posts along each side at equal interval. Find how many posts are there in all four sides:
(a) 56 **(b) 52** (c) 44 (d) 60
2. Average age of students of an adult school is 40 years. 120 new students whose average age is 32 years joined the school. As a result the average age is decreased by 4 years. Find the number of students of the school after joining of the new students:
(a) 1200 (b) 120 (c) 360 **(d) 240**
3. When Rs 250 added to $\frac{1}{4}$ th of a given amount of money makes it smaller than $\frac{1}{3}$ rd of the given amount of money by Rs 100. What is the given amount of money?
(a) Rs 350 (b) Rs 600 **(c) Rs 4200** (d) Rs 3600
4. A certain quantity of rice is spent daily for 30 students in a hostel. One day some students were absent as a result, the quantity of rice has been spent in the ratio of 6 : 5. How many students were present on that day?
(a) 24 (b) 20 (c) 15 **(d) 25**
5. The ratio of daily wages of two workers is 4 : 3 and one gets daily Rs 9 more than the other, what are their daily wages?
(a) Rs 32 and Rs 24 (b) Rs 60 and Rs 45 (c) Rs 80 and Rs 60 **(d) Rs 36 and Rs 27**
6. Find the ratio of purchase price and sell price if there is loss of $12\frac{1}{2}\%$
(a) 7 : 8 **(b) 8 : 7** (c) 2 : 25 (d) 25 : 2
7. The simplified value of $1.2 + (1.2)^2 + (1.2)^3$ is
(a) 4.248 **(b) 4.368** (c) 3.248 (d) 3.368
8. The rate of failure in an examination is 39.25%. Find the least number of total candidates appeared in the examination.
(a) 500 **(b) 400** (c) 125 (d) 260
9. 0.8 portion of a tank is filled with water. If 25 litres of water is taken out from the tank, 14 litres of excess water over the half filled up tank remains in it. Find the capacity of the tank.
(a) 100 litres **(b) 130 litres** (c) 200 litres (d) 150 litres
10. Find the greatest number which on dividing 107 and 120 leaves remainders 5 and 1 respectively.
(a) 25 (b) 6 (c) 9 **(d) 17**
11. There are 6561 balls out of them 1 is heavy. Find the min. no. of times the balls have to be weighed for finding out the heavy ball
(a) 8 (b) 16 (c) 32 (d) 64
12. If a clerk can process 80 cheques in half an hour, how many cheques can she process in a seven and one half hour day?
(a) 1120 (b) 800 **(c) 1200** (d) 1400
13. In a car wheel, two spokes cover 15 degree. Then for the entire car, how many spokes are there?
(a) 24 (b) 48 (c) 36 (d) 64
14. The age difference between two brothers is 3 years. After 6 years the ratio between the age is 9:8. What are their ages?
(a) 24 and 21 (b) 18 and 16 **(c) 21 and 18** (d) 36 and 32
15. A company contracts to paint 3 houses. Mr. Brown can paint a house in 6 days while Mr. Black would take 8 days and Mr. Blue 12 days. After 8 days Mr. Brown goes on vacation and Mr. Black begins to work for a period of 6 days. How many days will it take Mr. Blue to complete the contract?
(a) 7 (b) 8 **(c) 11** (d) 12

16. The difference between compound interest and simple interest on an amount of Rs. 15,000 for 2 years is Rs. 96. What is the rate of interest per annum?
(a) **8** (b) 10 (c) 12 (d) None of these
17. How many 4-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed?
(a) 40 (b) 400 (c) **5040** (d) 2520
18. The difference and the product of two numbers are 32 and 2145 respectively. Their sum is:
(a) 89 (b) **98** (c) 78 (d) 87
19. A man can row at 5 kmph in still water. If the velocity of current is 1 kmph and it takes him 1 hour to row to a place and come back, how far is the place?
(a) **2.4 km** (b) 2.5 km (c) 3 km (d) 3.6 km
20. In covering a distance of 30 km, Abhay takes 2 hours more than Sameer. If Abhay doubles his speed, then he would take 1 hour less than Sameer. Abhay's speed is:
(a) 7.5 kmph (b) 6.5 kmph (c) **5 kmph** (d) 6kmph
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1. Eesha bought 18 sharpeners for Rs.100. She paid 1 rupee more for each white sharpener than for each brown sharpener. What is the price of a white sharpener and how many white sharpener did she buy ?
a. Rs.5, 10 (b) **Rs.6, 10** (c) Rs.5, 8 (d) Rs.6, 8
2. Jake can dig a well in 16 days. Paul can dig the same well in 24 days. Jake, Paul and Hari together dig the well in 8 days. Hari alone can dig the well in
a. 96 days (b) **48 days** (c) 32 days (d) 24 days
3. The sum of the digits of a three digit number is 17, and the sum of the squares of its digits is 109. If we subtract 495 from the number, we shall get a number consisting of the same digits written in the reverse order. Find the number.
a. 773 (b) 683 (c) 944 (d) **863**
4. Mark told John "If you give me half your money I will have Rs.75. John said, "if you give me one third of your money, I will have Rs.75/- How much money did John have ?
a. 45 (b) **60** (c) 48 (d) 37.5
5. Rajiv can do a piece of work in 10 days , Venky in 12 days and Ravi in 15 days. They all start the work together, but Rajiv leaves after 2 days and Venky leaves 3 days before the work is completed. In how many days is the work completed ?
a. 5 (b) 6 (c) 9 (d) **7**
6. A man has a job, which requires him to work 8 straight days and rest on the ninth day. If he started work on Monday, find the day of the week on which he gets his 12th rest day.
a. Thursday (b) **Wednesday** (c) Tuesday (d) Friday
7. On a 26 question test, five points were deducted for each wrong answer and eight points were added for each correct answer. If all the questions were answered, how many were correct, if the score was zero ?
a. **10** (b) 12 (c) 11 (d) 13

8. 3 mangoes and 4 apples costs Rs.85. 5 apples and 6 peaches costs 122. 6 mangoes and 2 peaches costs Rs.114. What is the combined price of 1 apple, 1 peach, and 1 mango.

- a) **37** b) 39 c) 35 d) 36

9. Addition of $641 + 852 + 973 = 2456$ is incorrect. What is the largest digit that can be changed to make the addition correct?

- a) 5 b) 6 c) 4 **d) 7**

10. In the series 0, 3, 8, 15,24,35,___ What is the next number?

- a) 46 b) 45 **c) 48** d)47

11. 1, 2, 6, 24, What is the next number?

- a) 60 **b) 120** c) 95 d)150

12. 34, 12, 31, 14, 28, 16,.... What is the next number?

- a) **25, 18** b) 30, 13 c) 19, 26 d)18, 20

13. Six friends go to pizza corner there are 2 types of pizzas. And six different flavors are there they have to select 2 flavors from 6 flavors. In how many ways we can select?

- a) **6C2** b) 12C2 c) 6C4 d)12C4

14. Choose the conclusions which logically follow from the given statements.

Statements: All men are vertebrates. Some mammals are vertebrates.

Conclusions:1. All men are mammals.2. All mammals are men.3. Some vertebrates are mammals.4. All vertebrates are men.

- a) Only (4) b).Only (2) **c).Only (3)** d).Only (1) e).Only (1) and (3)

15. 12. Choose the conclusions which logically follow from the given statements.

Statements: Some keys are staplers. Some staplers are stickers. All the stickers are pens.

Conclusions:1. Some pens are staplers.2. Some stickers are keys.3. No sticker is key.

4. Some staplers are keys.

- a) Only (1) and (2) b). Only (2) and (4) c). Only (2) and (3) **d). Only (1) and (4) and either (2) or (3)**

16. The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is

- A) 17 kg B) 20 kg C) 26 kg **D) 31 kg**

17. In a group of six women, there are four dancers, four vocal musicians, one actress and three violinists. Girija and Vanaja are among the violinists while Jalaja and Shailaja do not know how to play on the violin. Shailaja and Tanuja are among the dancers. Jalaja, Vanaja, Shailaja and Tanuja are all vocal musicians and two of them are also violinists. If Pooja is an actress, who among the following is both a dancer and violinist ?

- A) Jalaja B) Shailaja **C) Tanuja** D) Pooja

18. Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my mother."How is Suresh related to that boy?

- A) Brother B) Uncle C) Cousin **D) Father**

19. Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?

- A. Brother** B. Nephew C. Uncle D. son in law E. grand father

20. Nithin was counting down from 32. Sumit was counting upwards the numbers starting from 1 and he was calling out only the odd numbers. What common number will they call out at the same time if they were calling at the same speed?
A. 19 B. 21 C.22 **D.They will not call out the same number** E. None of these.
21. In how many different ways can the letters of the word "MACHINE" be arranged so that the vowels are always come together?
A.210 **B.576** C.144 D.1728
22. In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women?
A. 45 B.90 C.126 **D. 63**
23. Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?
A.210 B.1050 **C.25200** D.21400
24. Two pipes A and B can fill a tank in 6 hours and 4 hours respectively. If they are opened on alternate hours and if pipe A is opened first, in how many hours, the tank shall be full?
A.4hours **B.5hours** C.8hours D.20hours
25. When a plot is sold for Rs. 18,700, the owner loses 15%. At what price must that plot be sold in order to gain 15%?
A.Rs. 21,000 B.Rs. 22,500 **C.Rs. 25,300** D. Rs. 25,800
26. Rajeesh, Rakesh and Ramesh jointly thought of engaging themselves in a business venture. It was agreed that Rajeesh would invest Rs. 6500 for 6 months, Rakesh, Rs. 8400 for 5 months and Ramesh, Rs. 10,000 for 3 months. Rajeesh wants to be the working member for which, he was to receive 5% of the profits. The profit earned was Rs. 7400. Calculate the share of Rakesh in the profit.
A. Rs. 1900 **B. Rs. 2660** C. Rs. 2800 D. Rs. 2840
27. Two tailors X and Y are paid a total of Rs. 550 per week by their employer. If X is paid 120 percent of the sum paid to Y, how much is Y paid per week?
A. Rs. 200 **B. Rs. 250** C. Rs. 300 D. None of these
28. Present ages of Kareena and Kajol are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively. What is Kajol's present age in years?
A.24 B. 27 C. 40 D. Cannot be determined E. None of these
29. In a 100 m race, A beats B by 10 m and C by 13 m. In a race of 180 m, B will beat C by:
A. 5.4 m B. 4.5 m C. 5 m **D. 6 m**
30. Ten years ago, P was half of Q in age. If the ratio of their present ages is 3:4, what will be the total of their present ages?
a)45 b) 30 **c) 35** d)40
31. Father is aged three times more than his son Sunil. After 8 years, he would be two and a half times of Sunil's age. After further 8 years, how many times would he be of Sunil's age?
a)3 times b) 4 times **c) 2 times** d) 5 times
32. The ages of two persons differ by 16 years. 6 years ago, the elder one was 3 times as old as the younger one. What are their present ages of the elder person?
a)10 b) 20 c) 40 **d) 30**
33. A contractor undertook to make 15 km of roadway in 40 weeks. In 10 weeks, 3 km was completed by 180 men working 8 hours a day. The men then agreed to work 1 hour a day overtime, and some boys

were engaged to assist them, the work was finished in the stipulated time(40 weeks). How many boys were employed, if the work of 3 boys is equal to that of 2 men?

A.80 B.70 C.60 **D.50**

34. A cube of each side 4 cm, has been painted black, red and green on pairs of opposite faces. It is then cut into small cubes of each side 1 cm. How many small cubes will have at least one face painted ?

A.32 **B.56** C.48 D.36

35.A tap can fill a tank in 6 hours. After half the tank is filled, three more similar taps are opened. What is total time taken to fill the tank completely?

A.3hours B.3hours 15 min **C.3hours 45min** D.4hours

1. If a boat is moving in upstream with velocity of 14 km/hr and goes downstream with a velocity of 40km/hr, then what is the speed of the stream ?

(a) 13 km/hr (b) 26 km/hr (c) 34 km/hr (d) none of these

3. A can have a piece of work done in 8 days, B can work three times faster than the A, C can work five times faster than A. How many days will they take to do the work together ?

(a) 3 days **(b) 8/9 days** (c) 4 days (d) can,t say

4. A car travels a certain distance taking 7 hrs in forward journey,during the return journey increased speed 12km/hr takes the times 5 hrs.What is the distance travelled

(a) 210 kms (b) 30 kms (c) 20 kms (d) none of these

8. A certain number of men can finish a piece of work in 10 days. If however there were 10 men less itwill take 10 days more for the work to be finished. How many men were there originally?

(a) 110 men (b) 130 men (c) 100 men (d) none of these

9. In simple interest what sum amounts of Rs.1120/-in 4 years and Rs.1200/-in 5 years ?

(a) Rs. 500 (b) Rs. 600 **(c) Rs. 800** (d) Rs. 900

10. If a sum of money compound annually amounts of thrice itself in 3 years. In how many years will it become 9 times itself.

(a) 6 (b) 8 (c) 10 (d) 12

11. Two trains move in the same direction at 50 kmph and 32 kmph respectively. A man in the slower train observes the 15 seconds elapse before the faster train completely passes by him.What is the length of faster train ?

(a) 100m **(b) 75m** (c) 120m (d) 50m

13. x% of y is y% of ?

(a) x/y (b) 2y **(c) x** (d) can,t be determined

14. The price of sugar increases by 20%, by what % should a housewife reduce the consumption of sugar so that expenditure on sugar can be same as before ?

(a) 15% **(b) 16.66%** (c) 12% (d) 9%

15. A man spends half of his salary on household expenses, 1/4th for rent, 1/5th for travel expenses, the man deposits the rest in a bank. If his monthly deposits in the bank amount 50, what is his monthly salary ?

(a) Rs.500 (b) Rs.1500 **(c) Rs.1000** (d) Rs. 900

16. 15 men take 21 days of 8 hrs. each to do a piece of work. How many days of 6 hrs. each would it take for 21 women if 3 women do as much work as 2 men?

(a) 30 (b) 20 (c) 19 (d) 29

18. The difference b/w the compound interest payable half yearly and the simple interest on a certain sum lent out at 10% p.a for 1 year is Rs 25. What is the sum?
(a) Rs. 15000 (b) Rs. 12000 (c) **Rs. 10000** (d) none of these
19. What is the smallest number by which 2880 must be divided in order to make it into a perfect square?
(a) 3 (b) 4 (c) **5** (d) 6
20. A father is 30 years older than his son however he will be only thrice as old as the son after 5 years what is father,s present age ?
(a) **40 yrs** (b) 30 yrs (c) 50 yrs (d) none of these
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