

1. Which number is multiplied by 43, which have 3 prime factor?
A.2 b.4 c. 6 d.8
2. For the smallest number that should be multiplied with 54000 to make it a perfect cube? a. 4 b.27 c.5 d.3
3. What is the least number which should be added to 1330 to make it a perfect square? a.56 b.1 c.40 d.30 d.39
4. 4522 is not divisible by a.7 b.17 c.19 d. 21
5. A number was divided by 8,7,6,5, successively and gave the remainder 1,2,3,4. The number is: a.3208 b. 3209 c.3210 d.3334
6. $528/7$ change into mixed fraction a. $78 \frac{3}{7}$ b. $76 \frac{4}{7}$ c. $75 \frac{3}{7}$ d. $34 \frac{5}{7}$
7. Find the remainder when (888.....repeat 63 times) is divisible by 9 a.4 b.8 c. 0 d.1
8. 1,2,3,4 number is a a.prime number b.composite number c.positive number d.both a and b
9. Write 0.555. as a fraction a. $\frac{1}{5}$ b. $\frac{5}{9}$ c. $\frac{1}{3}$ d. $\frac{4}{5}$
10. X and Y are 2 numbers which when divided by 6 leaves a remainder of 4 and 5 respectively. What will be the remainder when $Y+X$ is divided by 6? a.6 b.9 c.1 d. None of these
11. The number $98181*6$ is completely divisible by 9.Smallest whole digit number in place of * can be? a.0 b.1 c.2 d. 3
12. Which of the following numbers is divisible by 11? a.1042 b. 1045 c.1047 d.1048
13. Which of the following numbers is the smallest number?
a. $\frac{1}{12}$ b. $\frac{1}{6}$ c. $\frac{1}{4}$ d. $\frac{1}{3}$
14. What is the smallest four-digit number which when divided by 6, leaves a remainder of 5 and when divided by 5 leaves a remainder of 3? a)1043 b)1073 c) 1103 d) None of these
15. The reciprocal of H.C.F and LCM of two number are $\frac{1}{12}$ and $\frac{1}{312}$ respectively. If one of the number is 24. Find the other number? a) 126 b) 136 c) 146 d) 156

16. . The LCM and HCF of two numbers are 2970 and 30 respectively. Prime factors of the product of two numbers are:
a) 2, 3, 5, 11 b) 2, 3, 7, 11 c) 2, 4, 5, 11 d) 2, 3, 7, 13
17. HCF of two numbers is 11. And their LCM is 693. If one number is 77. Find the other number? a) 7 b) 9 c) 63 d) 99
18. What is the difference between the LCM and HCF of numbers 20, 30 and 40? a) 100 b) 110 c) 120 d) 130
19. Four different electronic devices make a beep after every 30 minutes, 1 hour, $3/2$ hour and 1 hour 45 minutes respectively. All the devices beeped together at 12 noon. They will again beep together at: a) 12 midnight b) 3 a.m. c) 6 a.m. d) 9 a.m.
20. The least perfect square number which is exactly divisible by 3, 4, 7, 10 and 12 is: a) 8100 b) 17600 c) 44100 d) None of these
21. Ram is five years elder to his youngest sibling Shreya. Shreya is two years younger than her brother Ritesh. Ritesh is 13 years old and is Ram's brother. How old will Ram be in two years from now? a) 16 b) 17 c) 20 d) 15 e) 18
22. Ravi is 5 years elder than Sunil. Sunil is 2 years younger than Reeta. If Sunil's age is 11, then What will be the age of Ravi 2 years from now? a) 4 b) 8 c) 16 d) 64
23. Parul is one-fifth the age her mother was 15 years ago and Parul's brother is three-fifth the age his mother was 10 years ago. If the sum of Parul and her brother's ages is 31, then how old is Parul's mother? (in years) a) 50 b) 40 c) 35 d) 60
24. A number becomes a perfect square when we subtract 1 from it. Which of the following cannot be the last digit of that number. a) 2 b) 4 c) 5 d) 0
25. The product of a number and its multiplicative inverse is a) -1 b) 0 c) 1 d) None

1. If $a:b = 2:3$ and $b:c = 4:3$, then find $a:b:c$

- a. 8:12:9
- b. 2:3:8
- c. 2:3:9
- d. 2:3:12

2. Find the fourth proportion to 2,3,6

- a. 18
- b. 12
- c. 9
- d. 4

3. If A:B:C = 2:3:4, then find

$$\frac{A}{B} : \frac{B}{C} : \frac{C}{A}$$

- a. 5:9:24
- b. 6:9:24
- c. 7:9:24
- d. 8:9:24

4. If A:B = 2:3, B:C = 4:5 and C:D = 6:7, then find the value of A:B:C:D

- a. 15:24:30:35
- b. 16:24:30:35
- c. 17:24:30:35
- d. 18:24:30:35

5. If 2 : 9 :: x : 18, then find the value of x

- a. 2
- b. 3
- c. 4
- d. 6

6. A bag contains 50 P, 25 P and 10 P coins in the ratio 5: 9: 4, amounting to Rs. 206. Find the number of coins of each type respectively.

- A) 360, 160, 200
- B) 160, 360, 200
- C) 200, 360, 160
- D) 200, 160, 300

7. A mixture contains alcohol and water in the ratio 4 : 3. If 5 liters of water is added to the mixture, the ratio becomes 4: 5. Find the quantity of alcohol in the given mixture.

- A) 10
- B) 12
- C) 15
- D) 18

8. Jo's collection contains US, Indian and British stamps. If the ratio of US to Indian stamps is 5 to 2 and the ratio of Indian to British stamps is 5 to 1, what is the ratio of US to British stamps?

- A) 10 : 5
- B) 15 : 2
- C) 20 : 2
- D) 25 : 2

9. A sum of Rs.312 was divided among 100 boys and girls in such a way that the boy gets Rs.3.60 and each girl Rs. 2.40 the number of girls is

- A) 35
- B) 40
- C) 45
- D) 50

10. If Rs. 782 be divided into three parts, proportional to $\frac{1}{2} : \frac{2}{3} : \frac{3}{4}$, then the first part is?

- A) Rs. 182
- B) Rs. 190
- C) Rs. 192
- D) Rs. 204

11. The average of five consecutive odd numbers is 61. What is the difference between the highest and lowest numbers :

- | | |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> A) 4 | <input type="checkbox"/> B) 8 |
| <input type="checkbox"/> C) 12 | <input type="checkbox"/> D) 16 |

12. The average weight of 8 persons increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person ?

- ☐ A) 70 kg ☐ B) 75 kg
- ☐ C) 80 kg ☐ D) 85 kg

13. The average weight of a class of 24 students is 35 kg. If the weight of the teacher be included, the average rises by 400 g. The weight of the teacher is :

- ☐ A) 45 kg ☐ B) 46 kg
- ☐ C) 47 kg ☐ D) 48 kg

14. The average of runs of a cricket player of 10 innings was 32. How many runs must he make in his next innings so as to increase his average of runs by 4 ?

- ☐ A) 76 ☐ B) 79
- ☐ C) 85 ☐ D) 87

15. The average of 7 consecutive numbers is 20. The largest of these numbers is :

- ☐ A) 21 ☐ B) 22
- ☐ C) 23 ☐ D) 24

1. The average age of 30 boys of a class is equal to 14 yrs. When the age of the class teacher is included the average becomes 15 yrs. Find the age of the class teacher

0. 44

1. 45

2. 46

3. 47

2. The average weight of 4 men is increased by 3 kg when one of them who weighs 120 kg is replaced by another man. What is the weight of the new man?

4. 120

5. 122

6. 124

7. 126

3. The average of 11 results is 50. If the average of first six results is 49 and that of last six is 52, find the sixth result.

8. 56

9. 55

10. 54

11. 58

4. batsman in his 17th innings makes a score of 85, and thereby increases his average by 3. What is his average after 17 innings?

a. 35

b. 39

c. 36

d. 37

5. The average of marks obtained by 120 candidates in a certain examination is 35. If the average marks of passed candidates is 39 and that of the failed candidates is 15, what is the number of candidates who passed the examination?

12. 200

13. 300

14. 100

15. 400

6. An amount of Rs 1210 was divided among X, Y, Z. $X:Y = 5:4$ and $Y:Z = 9:10$. How much amount does Z get?

- a- Rs. 340
- b- Rs. 400
- c- Rs. 425
- d- Rs. 450

7. Three numbers are in the ratio 3:4:5. The sum of their squares is Rs 1250. What is the sum of numbers?

- a- 40
- b- 50
- c- 60
- d- 90

8. The ratio of number of boys and girls in a college is 7:8. If the number of boys and girls increase by 20% and 10% respectively, find out the new ratio.

- a- 8:9
- b- 1
- c- 17:18
- d- 21:22

9. A bag contains 1rs, 2 rs and 5 rs coins amounting rs 264. If the ratio of these coins is

3 : 5 : 4, find the number of 1 rs coins in the bag ?

- a. 66 b.48 c.24 d.8

10. A bag contains fifty, twenty and ten rupee notes amounting 4200 rupees,. If the ratio of these notes is 2 : 3 : 5, find the number of 20 rupee notes in the bag ?

- a. 200 b.60 c.25 d.4

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