Ratio & Proportion

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Vedic Mathematics

1) A sum of money is to be distributed among A, B, C, D in the proportion of 5 : 2 : 4 : 3. If C gets Rs. 1000 more than D, what is B's share?

a) Rs. 500 b) Rs. 1500
c) Rs. 2000 d) None of these

2) A and B together have Rs. 1210. If $\frac{4}{15}$ of A's amount is equal to $\frac{2}{5}$ of B's amount, how much amount does B have?

a) Rs. 460 b) Rs. 484
c) Rs. 550 d) Rs. 664

3) Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is:

a) 2 : 5 b) 3 : 5
c) 4 : 5 d) 6 : 7

4) Salaries of Ravi and Sumit are in the ratio 2 : 3. If the salary of each is increased by Rs. 4000, the new ratio becomes 40 : 57. What is Sumit's salary?

a) Rs. 17,000 b) Rs. 20,000
c) Rs. 25,500 d) Rs. 38,000

5) If 0.75 : x :: 5 : 8, then x is equal to:

a) 1.12 b) 1.2
c) 1.25 d) 1.30

6) 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. 196 d) Rs. 204

7) The fourth proportional to 5, 8, 15 is:

a) 18 b) 24
c) 19 d) 20

8) Two number are in the ratio 3 : 5. If 9 is subtracted from each, the new numbers are in the ratio 12 : 23. The smaller number is:

a) 27 b) 33
c) 49 d) 55

9) Find the fourth proportion to 2,3,6

a) 18 b) 12
c) 9 d) 4

10) If 2 : 9 :: x : 18, then find the value of x

a) 2 b) 3
c) 4 d) 6

11) Rs. 120 are divided among A, B, C such that A's share is Rs. 20 more than B's and Rs. 20 less than C's. What is B's share

a) Rs 10 b) Rs 20
c) Rs 24 d) Rs 28

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12) In a college, the ratio of the number of boys to girls is 8 : 5. If there are 200 girls, the total number of students in the college is

a) 420 b) 520
c) 620 d) 720

13) Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is

a) 2:5 b) 3:5
c) 4:5 d) 6:5

14) In a mixture 60 litres, the ratio of milk and water 2 : 1. If the this ratio is to be 1 : 2, then the quanity of water to be further added is

a) 20 liters b) 30 liters
c) 50 liters d) 60 liters

15) If three numbers in the ratio 3 : 2: 5 be such that the sum of their squares is 1862, the middle number will be

a) 10 b) 14
c) 18 d) 22

16) A dog takes 3 leaps for every 5 leaps of a hare. If one leap of the dog is equal to 3 leaps of the hare, the ratio of the speed of the dog to that of the hare is

a) 4:5 b) 9:5
c) 8:5 d) 9:2

17) Price of Article-1 and Article-2 are Rs. 3750 and Rs. 6000 respectively. Price of Article-1 increases by 36% and that of Article-2 decreases by 12.5%, then the ratio of the new prices of Article-1 and Article-2 is?

a) 20 : 21 b) 41 : 42
c) 34 : 35 d) 4 : 5

18) There are only Rs. 1 and 50 paisa coins in a bag. If the total amount in the bag is Rs. 63 and the ratio of Rs. 1 and 50 paisa coins is 2 : 3, then what is the total number of 50 paisa coins?

a) 48 b) 32
c) 56 d) 54

19) The ratio of two numbers is 2 : 3 . If the first number is increased by 20% and second number is decreased by 20%, then the sum of number becomes 96. Find the sum of original numbers

a) 100 b) 120
c) 140 d) 150

20) A sum of money is to be distributed among A, B and C in the ratio of 3 : 4 : 8. If C gets Rs 800 more than A, then what is the share of B?

a) Rs 540 b) Rs 500
c) Rs 640 d) Rs 750

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21) The ratio of the numerical value of a rectangle's area to its perimeter is 60 : 11. If the length and breadth of the rectangle are in the ratio 6 : 5. Find the length of the rectangle.

a) 40 units b) 30 units
c) 13 units d) 24 units

22) The price of two articles are in the ratio of 4 : 3 respectively. The price of first article is increased by 50% and the price of second article is decreased by 10%. If the new price of second article is ₹54, then what was the original price of first article?

a) ₹120 b) ₹80
c) ₹100 d) ₹90

23) 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

24) 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

25) The compounded ratio of (2 : 3), (6: 11) and (11 :2) is

a) 1:2 b) 2:1
c) 11:24 d) 36:121

26) 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

27) The salaries of A, B, and C are in the ratio of 1 : 2 : 3. The salary of B and C together is Rs. 6000. By what percent is the salary of C more than that of A?

a) 100 % b) 200%
c) 300% d) 600%

28) A sum of Rs. 427 is to be divided among A, B and C such that 3 times A's share, 4 tunes B's share and 7 times C's share are all equal. The share of C is :

a) 84 b) 140
c) 196 d) 240

29) Seats for Mathematics, Physics and Biology in a school are in the ratio 5:7:8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats ?

a) 1:2:3 b) 2:3:4
c) 3:4:5 d) 4:5:6

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30) The third proportional to 9 and 12 is ?
a) 14 b) 16
c) 18 d) 20

31) If 76 is divided into four parts proportional to 7, 5, 3, 4, then the smallest part is:
a) 12 b) 15
c) 16 d) 19

32) A dog takes 3 leaps for every 5 leaps of a hare. If one leap of the dog is equal to 3 leaps of the hare, the ratio of the speed of the dog to that of the hare is :
a) 9:5 b) 2:3
c) 4:7 d) 5:6

33) 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

34) If the ratio of the ages of two friends A and B is in the ratio 3 : 5 and that of B and C is 3 : 5 and the sum of their ages is 147, then how old is B?
a) 27 Years b) 75 Years
c) 45 Years d) 49 Years

35) The wages of labourers in a factory increases in the ratio 22:25 and there was a reduction in the number of labourers in the ratio 15:11. Find the original wage bill if the present bill is Rs. 5000 ?
a) Rs. 5500 b) Rs. 6000
c) Rs. 6200 d) Rs. 6350

36) A and B invests Rs.8000 and Rs.9000 in a business. After 4 months, A withdraws half of his capital and 2 months later, B withdraws one-third of his capital. In what ratio should they share the profits at the end of the year ?
a) 21:29 b) 41:54
c) 32:45 d) 37:51

37) In a college, the ratio of the number of boys to girls is 8 : 5. If there are 160 girls, the total number of students in the college is
a) 100 b) 250
c) 260 d) 416

38) In a competitive exam, the number of passed students was four times the number of failed students. If there had been 35 fewer appeared students and 9 more had failed, the ratio of passed and failed students would have been 2 : 1, then the total number of students appered for the exam ?
a) 175 b) 165

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c) 155 d) 145

39) The ratio of male and female in a city is 7 : 8 respectively and percentage of children among male and female is 25 and 20 respectively. If number of adult females is 156800, what is the total population of the city?

a) 4,12,480 b) 3,67,500
c) 5,44,700 d) 2,98,948

40) Pencils, Pens and Exercise books in a shop are in the ratio of 10: 2 : 3. If there are 120 pencils, the number of exercise books in the shop is:

a) 26 b) 36
c) 46 d) 56

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