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Vedic Mathematics

1) If 60% of A = $\frac{3}{4}$ of B, then A : B is

a) 4 : 5   b) 5 : 4
c) 20 : 9   d) 9 : 20

2) The prices of a school bag and a shoe are in the ratio 7 : 5. The price of a school bag is Rs.200 more than the price of a shoe. Then the price of a shoe is

a) Rs.500   b) Rs.1, 200
c) Rs.700   d) Rs.200

3) The ratio of the number of boys and girls in a college is 3 : 2. If 20% of boys and 25% of girls are adults, the percentage of those students who are not adults, is

a) 78%   b) 82.5%
c) 67.5%   d) 58%

4) When 60% of a number is subtracted from another number, the second number reduces to its 52%; the ratio of the first number to the second number is :

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

5) If 15% of x is same as 20 % of y then x : y is

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

6) The ratio of the number of boys and girls in a school is 2 : 3. If 25% of the boys and 30% of the girls are scholarship holders, the percentage of the school students who are not scholarship holders is

a) 54   b) 60   c) 36   d) 72

7) The ratio of the number of boys to that of girls in a school is 4 : 1. If 75% of boys and 70% of the girls are scholarship-holders, then the percentage of students who do not get scholarship is

a) 75%   b) 26%
c) 28%   d) 50%

8) There is a ratio of 5: 4 between two numbers. If 40 % of the first number is 12, then what would be 50 % of the second number?

a) 18   b) Data Inadequate
c) 24   d) 12

9) If 10% of x is 3 times 15% of y, then find x:y.

a) 8 : 3   b) 11 : 4
c) 9 : 2   d) 7 : 2

10) The ratio of the number of boys and girls in a school is 3 : 2. If 20% of the boys and 30% of the girls are scholarship holders, then the percentage of students, who do not get scholarship, is

a) 75%   b) 76%
c) 72%   d) 50%

11) If A exceeds B by 60% and B is less than C by 20%, then A : C is

a) 8 : 5   b) 4 : 5
c) 25 : 32   d) 32 : 25

12) The ratio between Ram's age and Rahim's age is 10:11. What is the age of Rahim in percentage of Ram's age ?

a) $111\frac{1}{9}$ %   b) 111%

c) 110%   d) $109\frac{1}{11}$ %

13) Two numbers A and B are such that the sum of 5% of A and 4% of B is $\frac{2}{3}$ rd of the sum of 6% of A and 8% of B. The ratio A : B is

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

14) If 20% of A = 30% of B = $\frac{1}{6}$ of C, then

A : B : C is
a) 10 : 15 : 18   b) 15 : 10 : 18
c) 3 : 2 : 16   d) 2 : 3 : 16

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15) A milkman mixed some water with milk to gain 25% by selling the mixture at the cost price. The ratio of water and milk is respectively
a) 1 : 5   b) 1 : 4
c) 4 : 5   d) 5 : 4

16) The population of a town is 3, 11,250. The ratio between women and men is 43 : 40. If there are 24% literate among men and 8% literate among women, the total number of literate persons in the town is
a) 56,800   b) 99,600
c) 48,900   d) 41,800

17) The expenses on rice, fish and oil of a family are in the ratio 12 : 17 : 3. The prices of these articles are increased by 20%, 30% and 50% respectively. The total expenses of family on these articles are increased by
a) $56\frac{1}{8}$%   b) $28\frac{1}{8}$%
c) $7\frac{1}{8}$%   d) $14\frac{1}{8}$%

18) The ratio of syrup and water in a mixture is 3 : 1, then the percentage of syrup in this mixture is :
a) $66\frac{2}{3}$%   b) $33\frac{1}{3}$%
c) 25%   d) 75%

19) If 10% of m is the same as 20% of n, then
 m : n is equal to :
a) 1 : 10   b) 1 : 20
c) 1 : 2   d) 2 : 1

20) In what ratio must 25% hydrochloric acid be mixed with 60% hydrochloric acid to get a mixture of 40% hydrochloric acid ?
a) 3 : 4   b) 12 : 5
c) 4 : 3   d) 5 : 12

21) The difference of two numbers is 15% of their sum. The ratio of the larger number to the smaller number is

a) 17 : 11   b) 23 : 11
c) 11 : 9   d) 23 : 17

22) If 30% of (B – A) = 18% of (B + A), then the ratio A : B is equal to
a) 5 : 4   b) 5 : 9
c) 1 : 4   d) 4 : 1

23) The ratio of two numbers is 4:5 when the first is increased by 20% and the second is decreased by 20%, the ratio of the resulting numbers is
a) 5 : 6   b) 6 : 5
c) 5 : 4   d) 4 : 5

24) The ratio 5 : 4 expressed as a per cent equals :
a) 40%   b) 12.5%
c) 80%   d) 125%

25) If A exceeds B by 40%, B is less than C by 20%, then A : C is :
a) 3 : 2   b) 3 : 1
c) 26 : 25   d) 28 : 25

26) If 50% of x = 30% y, then x : y is
a) 3 : 2   b) 3 : 5
c) 5 : 3   d) 2 : 3

27) Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is
a) 4 : 5   b) 6 : 7
c) 3 : 5   d) 2 : 5

28) The bus fare and train fare of a place from Kolkata were Rs.20 and Rs.30 respectively. Train fare has been increased by 20% and the bus fare has been increased by 10%. The ratio of new train fare to new bus fare is
a) 5 : 3   b) 3 : 5
c) 18 : 11   d) 11 : 18

29) The ratio of the number of boys and girls in a school is 3:2. If 20% of the boys and 25% of the girls are
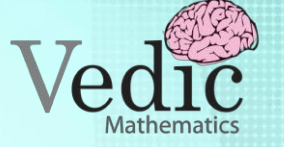
scholarship holders, the percentage of the school students who are not scholarship holders is
a) 70   b) 80   c) 78   d) 56

30) The difference of two numbers is 45% of their sum. The ratio of the larger number to the smaller number is
a) 29 : 11   b) 11 : 29
c) 9 : 20   d) 20 : 9

31) The price of sugar is increased by 20%. If the expenditure on sugar has to be kept the same as earlier, the ratio between the reduction in consumption and the original consumption is
a) 1 : 6   b) 1 : 5
c) 1 : 4   d) 1 : 3

32) The ratio of the number of boys to that of girls in a village is 3 : 2. If 30% of boys and 70% of girls appeared in an examination, the ratio of the number of villagers, appeared in the examination to that not appeared in the same examination is
a) 1 : 1   b) 27 : 23
c) 23 : 27   d) 9 : 14

33) Two numbers are in the ratio 2 : 3. If 20% of the smaller number added to 20 is equal to the sum of 10% of the larger number and 25, then the smaller number is
a) 180   b) 200
c) 160   d) 100

34) If 30% of A = 0.25 of B = $\frac{1}{5}$ of C, then A : B : C is equal to :
a) 6 : 5 : 4   b) 10 : 12 : 15
c) 5 : 24 : 5   d) 5 : 6 : 4

35) If 35% of A's income is equal to 25% of B's income, then the ratio of A's income to B's income is
a) 4 : 7   b) 4 : 3
c) 5 : 7   d) 7 : 5

36) The ratio of the number of boys and girls in a school is 3 : 2. If 20% of the boys and 25% of the girls are scholarship holders, then the percentage of the students, who do not get the scholarship, is :
a) 60%   b) 55%   c) 75%   d) 78%

37) Rama's expenditures and savings are in the ratio 5 : 3. If her income increases by 12% and expenditure by 15%, then by how much per cent do her savings increase ?
a) 8%   b) 13%   c) 7%   d) 12%

38) In a class, the number of girls is 20% more than that of the boys. The strength of the class is 66. If 4 more girls are admitted to the class, the ratio of the number of boys to that of the girls is
a) 1 : 4   b) 3 : 5
c) 3 : 4   d) 1 : 2