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1) In a school 40% of the students play football and 50% play cricket. If 18% of the students neither play football nor cricket, the percentage of the students playing both is :

- a) 22%      b) 8%  
c) 40%      d) 32%

2) In a big garden 60% of the trees are coconut trees, 25% of the number of coconut trees are mango trees and 20% of the number of mango trees are apple trees. If the number of apple trees are 1500, then the number of trees in the garden is :

- a) 51000      b) 45000  
c) 48000      d) 50000

3) Half of 1 per cent, written as a decimal, is

- a) 0.005      b) 0.05  
c) 0.2      d) 0.02

4) If 30% of A is added to 40% of B, the answer is 80% of B. What percentage of A is B?

- a) 70%      b) 75%  
c) 30%      d) 40%

5) A number is divided into two parts in such a way that 80% of 1st part is 3 more than 60% of 2nd part and 80% of 2nd part is 6 more than 90% of the 1st part. Then the number is

- a) 135      b) 145      c) 125      d) 130

6) If 20% of  $(A + B) = 50\%$  of B, then value of  $\frac{2A-B}{2A+B}$  is

- a)  $\frac{1}{4}$       b) 1      c)  $\frac{1}{2}$       d)  $\frac{1}{3}$

7) If 125% of x is 100, then x is :

- a) 400      b) 125      c) 80      d) 150

8) If 50 % of P = 25% of Q, then P = x% of Q. Find x.

- a) 50      b) 0.005  
c) 0.5      d) 2

9) What is 20% of 25% of 300?

- a) 45      b) 15      c) 150      d) 60

10) If 90% of A = 30% of B and B = x% of A, then the value of x is

- a) 700      b) 400      c) 800      d) 300

11) If three-fifth of sixty per cent of a number is 36, the number is

- a) 75      b) 90      c) 100      d) 80

12) If 50% of  $(P - Q) = 30\%$  of  $(P + Q)$  and  $Q = x\%$  of P, then the value of x is :

- a) 20      b) 50      c) 30      d) 25

13) If 80% of A = 50% of B and B = x% of A, then the value of x is :

- a) 160      b) 150      c) 400      d) 300

14) What is to be added to 15% of 160 so that the sum may be equal to 25% of 240 ?

- a) 60      b) 36      c) 24      d) 84

15) 2 is what percent of 50?

- a) 4      b) 5      c) 2      d) 2.5

Solution : Let 2 be x% of 50

16) A box has 100 blue balls, 50 red balls, 50 black balls. 25% of blue balls and 50% of red balls are taken away. Percentage of black balls at present is

- a)  $33\frac{1}{3}\%$       b) 40%      c) 50%      d) 25%

17) 32 is what per cent of 80 ?

- a) 36%      b) 40%      c) 24%      d) 25.6%

18) If 20% of A = 50% of B, then what per cent of A is B ?

- a) 25%      b) 15%      c) 30%      d) 40%







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19) 0.15% of  $33\frac{1}{3}$  % of Rs.10000 is :

- a) Rs.0.05      b) Rs.105  
c) Rs.5          d) Rs.150

20) If 15% of  $(A + B) = 25\%$  of  $(A - B)$ , then what per cent of B is equal to A?

- a) 200%      b) 400%  
c) 10%       d) 60%

21) If x% of  $\frac{25}{2}$  is 150, then the value of x is :

- a) 1400      b) 1500  
c) 1000      d) 1200

22) If 20% of  $(P + Q) = 50\%$  of  $(P - Q)$ , then find P : Q

- a) 7 : 5      b) 5 : 7  
c) 7 : 8      d) 7 : 3

23) The time duration of 1 hour 45 minutes is what percent of a day?

- a) 8.3 %      b) 8.24 %  
c) 7.218 %    d) 7.292 %

24) If p% of p is 36, then p is equal to :

- a) 60      b) 15      c) 3600      d) 600

25) If 40% of  $(A + B) = 60\%$  of  $(A - B)$  then  $\frac{2A-3B}{A+B}$  is

- a)  $\frac{5}{6}$       b)  $\frac{6}{5}$       c)  $\frac{7}{6}$       d)  $\frac{6}{7}$

26) What percent of 3.6 kg is 72 gms ?

- a) 12%      b) 2%      c) 32%      d) 22%

27)  $\frac{2}{3}$  is what percent of  $\frac{1}{3}$  ?

- a) 150%      b) 200%  
c) 50%      d)  $33\frac{1}{3}$  %

28) A dozen pairs of socks quoted at Rs.180 are available at discount of 20%. How many pairs of socks can be bought for Rs.48?

- a) 2 pairs      b) 5 pairs  
c) 3 pairs      d) 4 pairs

29) If 50% of  $(x - y) = 30\%$  of  $(x + y)$ , then what per cent of x is y?

- a) 40%      b) 400%      c) 25%      d)  $33\frac{1}{3}$  %

30) One-third of 1206 is what percent of 134 ?

- a) 200%      b) 300%  
c) 100%      d) 150%

31) Out of two numbers, 40% of the greater number is equal to 60% of the smaller. If the sum of the numbers is 150, then the greater number is

- a) 90      b) 60      c) 70      d) 80

32) The population of a village is 25,000. One fifth are females and the rest are males. 5% of males and 40% of females are uneducated. What percentage on the whole are educated?

- a) 55%      b) 85%      c) 75%      d) 88%

33) What percent of 3.5 kg is 70 gms ?

- a) 5%      b) 2%      c) 3%      d) 4%

34) If x% of a is the same as y% of b, then z% of b will be

- a)  $\frac{xy}{z}$  % of a      b)  $\frac{y}{z}$  % of a  
c)  $\frac{yz}{x}$  % of a      d)  $\frac{zx}{y}$  % of a

35) 30% of x is 72. The value of x is:

- a) 480      b) 640      c) 216      d) 240







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36) If 120% of a is equal to 80% of b, then  $\frac{b+a}{b-a}$  is equal to

- a) 7      b) 8      c) 5      d) 6

37) 1.14 expressed as a per cent of 1.9 is

- a) 60%      b) 90%      c) 6%      d) 10%

38) 31% of employees pay tax in the year 2008. Non-tax paying employees are 20,700. The total number of employees is :

- a) 30,000      b) 66,775  
c) 31,160      d) 64,750

39) If 90% of A = 30% of B and B = 2x% of A, then the value of x is

- a) 300      b) 150      c) 450      d) 400

40) 0.001 is equivalent to

- a) 0.01%      b) 0.1%  
c) 10%      d) 1%

41) A student multiplied a number by  $\frac{3}{5}$  instead of  $\frac{5}{3}$ .

What is the percentage error in the calculation ?

- a) 54%      b) 64%  
c) 44%      d) 34%

42) A team played 40 games in a season and won in 24 of them. What percent of games played did the team win?

- a) 60%      b) 35%  
c) 70%      d) 40%

43) If x is 80% of y, what percent of y is x ?

- a) 100%      b) 125%  
c) 75%      d) 80%

44) In a college, 40% of the students were allotted group A, 75% of the remaining were given group B and the remaining 12 students were given group C. Then the number of students who applied for the group is

- a) 80      b) 92      c) 100      d) 60

45) 65g is what per cent of 2 kg ?

- a)  $\frac{15}{8}$       b)  $\frac{13}{8}$       c)  $\frac{13}{4}$       d)  $\frac{65}{2}$

46) Given A is 50% larger than C and B is 25% larger than C, then A is what percent larger than B ?

- a) 75%      b) 20%      c) 25%      d) 50%

47) 0.01 is what per cent of 0.1 ?

- a) 100      b)  $\frac{1}{100}$       c) 10      d)  $\frac{1}{10}$

48) If 8% of x is the same as 4% of y, then 20% of x is the same as:

- a) 80% of y      b) 50% of y  
c) 10% of y      d) 16% of y

49) If Y% of one hour is 1 minute 12 seconds, then Y is equal to

- a)  $\frac{1}{2}$       b)  $\frac{1}{4}$       c) 2      d) 1

50) 498 is 17% less than the number by

- a) 600      b) 620  
c) 610      d) 580

