Percentage and its applications

1) $74\% = = \frac{74}{100} = ?$

   a) 0.74   b) 00.704   c) 7.4   d) 7.4   Ans : a

2) $8\frac{1}{2}\% = \frac{17}{200} = ?$

   a) 8.5   b) 0.085   c) 85   d) 0.85   Ans : b

3) $0.25 = \frac{25}{100} = ?$

   a) 25%   b) 2.5%   c) 25%   d) 0.25%   Ans : a

4) $\frac{3}{5} = \frac{3}{5} \; x \; \frac{100}{100} = ?$

   a) 60%   b) 70%   c) 75%   d) 55%   Ans : a

5) The enrolment of students in a school increases from 900 to 936 in a year. Determine the percent increase in the enrolement.
   a) 4%   b) 5 %   c) 6%   d) 7%   Ans: a

6) In an examination Raju and Neeta secured 294 and 372 marks respectively. If neeta secured 62% marks, find the maximum marks ?
   a) 600   b) 700   c) 800   d) 900   Ans: a

7) A reduction of 10% in the price of tea enables a dealer to purchase 25 Kgs more tea for Rs.22500/- What is the reduced price per one Kg of Tea?
   a)90   b) 100   c) 120   d) 220   Ans : a

8) In an election between two candidates A and B, A got 60% of the total valid votes. If 15% of the total 5,00,000 votes were declared invalid, find the number of valid votes polled in favour of candidate B.
   a) 1,70,000   b) 2,70,000   c) 3,70,000   d) 4,00,000   Ans : a

9) The price of a commodity has increased by 20%. Find the reduction in the consumption of the commodity by a consumer so that there is no increase in his expenditure in Kgs.?
   a) $\frac{250}{3}$ b) $\frac{125}{3}$ c) $\frac{25}{3}$ d) $\frac{250}{30}$ Ans: a

10) The enrolment of students in a school increases from 560 to 581. Determine the percentage increase in the enrolment.
    a) 4%   b)3.75%   c) 5%   d) 2%   Ans : b

11) The enrolment in a school increases from 1200 to 1254. Determine the percentage of increase in the enrolment.

a) 2.5%   b)4.5%   c) 3%   d) 4% Ans : b

12) Find the total output of a coalmine, if after 24% wastage the net output is 68400 quintals.

   a) 8000 quintals   b)9000 quintals   c) 7000 quintals   d) 5000 quintals   Ans : b

13) The strength of students in a school, when increased by 8%, becomes 2160. Find the original strength of students in the school.

   a) 1000   b)2000   c) 3000   d) 2500   Ans : b

14) If 60% of students in a school are boys and the total number of girls in the school is 460, find the number of boys in the school.

       a)450   b) 590   c)690   d) 290   Ans : c

15) A reduction of 25% in the price of apples would enable a purchaser to get 2 Kg apples more for Rs.240. Find the reduced price per Kg of apples.

       a)20   b)Rs.30 c) 40   d) 50   Ans: b

16) A rise of 25% in the price of ground nuts compels a person to buy 1.5 Kg of groundnuts less for Rs.240. Find increased price of groundnuts per Kg.

   a)Rs.40   b) 30   c) 25   d) 35   Ans: a

17) In a quarterly examination, a student secured 30% marks and failed by 12 marks. In the same examination another student secured 40% marks and got 28 marks more than bare minimum marks of pass. Find the maximum marks.

   a)400   b) 300   c) 500   d) 600   Ans: a

18) In an examination Yakub secured 31% marks and failed by 14 marks. In the same examination, Sonu secured 43% marks and got 70 marks more than bare minimum marks to pass. Find the bare minimum percentage of marks necessary for passing.

   a)33%   b) 30%   c) 40%   d) 25%   Ans: a

19) In an election between two candidates A and B, A got 65% of the total votes cast and won the election by 2748 votes. Find the total number of votes cast if no vote is declared invalid.

   a) 8000   b) 7000   c)9160 d) 6500   Ans : c

20) Price of a commodity has increased by 60%. By what percent must a consumer reduce the consumption of the commodity so as not to increase the expenditure?

   a)37.5%   b) 30%   c) 35%   d) 40%   Ans : a

21) In an examination, Devendra secured 360 marks. His percentage of marks is 45. His friend Mubin secured 436 marks in the same examination.   Find the percentage of marks secured by Mubin.

   a) 50%   b)54.5%   c) 60%   d) 70%   Ans : b

22) Sohan saves 14% of his salary while George saves 22%. If both get the same salary and George saves Rs.1540, find the savings of Sohan ?

   a)Rs.980   b) 800   c) 700   d) 900   Ans: a

23) If A's salary is 50% more than B's , then by what percent B's salary is less than A's salary?

   a) 33 1/3%   b) 66%   c) 40%   d) 20%   Ans : a

24) Quicklime contains 28.6% of oxygen by weight. Determine the weight of oxygen of 750 g quicklime.
a)214.5 Kg   b) 300 Kg   c) 400 K g   d) 500 Kg   An s: a

25) In an election between two candidates A and B, A got 55% of the total valid votes, 20% of the votes were declared invalid.   If the total votes were 7500, find the number of valid votes polled in favour of the candidate B.
a)   2700   b) 2500   c) 3000 d) 4000   Ans : a

26) A man donated 4% of his income to a charity and deposited 10% of the rest in a bank. If now he has Rs.10800, what was his income?
a)   Rs.10000   b) Rs.12000   c)Rs.12500 d)Rs. 5000   Ans : c

27) 140 litres of a liquid contains 90% of acid and the rest water. How much water must be added to make the water 12.5% of the resulting mixture?
a)4 litres b) 8 litres   c) 12 litres d) 20 Litres   Ans : a

28) Shanta has some money with her. She gave 50% of it to Deepak and 30% to Bhupendra. 60% of the remaining was donated to a school. If Rs.8040 are still left with her, find the original amount of money she had.
a)Rs.100500   b) Rs.200500   c) Rs.300500   d) Rs.50500   Ans : a