



Sheet-1

Problem Based on Percentage

1. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was :

2500 2700 2900 3100

2. Fresh fruit contains 68% water and dry fruit contains 20% water. How much dry fruit can be obtained from 100 kg of fresh fruits ?

20 30 40 50

3. If 20% of $a = b$, then $b\%$ of 20 is the same as :

4% of a 6% of a 8% of a 10% of a

4. The value of a machine depreciates at the rate of 10% every year. It was purchased 3 years ago. If its present value is Rs. 8748, its purchase price was :

10000 12000 14000 16000

5. A student multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$, What is the percentage error in the calculation ?

54 % 64 % 74 % 84 %

6. if the price of a book is first decreased by 25% and then increased by 20%, then the net change in the price will be :

10 20 30 40

7. Gaurav spends 30% of his monthly income on food articles, 40% of the remaining on conveyance and clothes and saves 50% of the remaining. If his monthly salary is Rs. 18,400, how much money does he save every month ?

3864 4903 5849 6789

8. A student has to obtain 33% of the total marks to pass. He got 125 marks and failed by 40 marks. The maximum marks are :

500 600 800 1000

9. If A's height is 40% less than that of B, how much percent B's height is more than that of A?

66.66% 76.66% 96.66% 86.66%

10. 405 sweets were distributed equally among children in such a way that the number of sweets received by each child is 20% of the total number of children. How many sweets did each child receive ?

9 10 11 12

11. A man spends 35% of his income on food, 25% on children's education and 80% of the remaining on house rent. What percent of his income he is left with ?

6 % 8% 10 % 12 %

12. If 75% of a number is added to 75, then the result is the number itself. The number is :

100 200 300 400

13. In an election only two candidates contested 20% of the voters did not vote and 120 votes were declared as invalid. The winner got 200 votes more than his opponent thus he secured 41% votes of the total voters on the voter list. Percentage votes of the defeated candidate out of the total votes casted is:

47.5% 41% 38% 45%

14. The ratio 5 : 4 expressed as a percent equals :

12.5 % 40 % 80 % 125 %

15. The population of a town was 1,60,000 three years ago, If it increased by 3%, 2.5% and 5% respectively in the last three years, then the present population in

155679 167890 179890 177366

16. A's salary is 40% of B's salary which is 25% of C's salary. What percentage of C's salary is A's salary ?

10 20 30 40

17. In a History examination, the average for the entire class was 80 marks. If 10% of the students scored 35 marks and 20% scored 90 marks, what was the average marks of the remaining students of the class ?

25 50 75 100

18. What percent of 7.2 kg is 18 gms ?

.25% .5% .75% 1%

19. A number is decreased by 10% and then increased by 10%. The number so obtained is 10 less than the original number. What was the original number ?

1000 2000 3000 4000

20. In a competitive examination in State A, 6% candidates got selected from the total appeared candidates. State B had an equal number of candidates appeared and 7% candidates got selected with 80 more candidates got selected than A. What was the number of candidates appeared from each State ?

4000 8000 12000 16000

21. 270 candidates appeared for an examination, of which 252 passed. The pass percentage is :

(91 + 1/3)% (93 + 1/3)% (97 + 1/3)% (98 + 1/3)%

22. If x is 80% of y, then what percent of 2x is y?

65.5% 64.5% 63.5% 62.5%

23. A housewife saved Rs. 2.50 in buying an item on sale. If she spent Rs. 25 for the item, approximately how much percent she saved in the transaction ?

8 9 10 11

24. 1100 boys and 700 girls are examined in a test; 42% of the boys and 30% of the girls pass. The percentage of the total who failed is :

58 62 * 2/3 64 67

25) A textile worker's wages are increased by 10% and afterwards decreased by 10 %. Find the change percentage in his wages.

a. 2 % increase b. 4% increase c. 1% decrease d. 4% decrease

26) In an examination, the percentage of students qualified to the students appeared from school 'P' is 70%. In school 'Q', the number of students appeared is 30% more than the students appeared from school 'P' and the number of students qualified from school 'Q' is 50% more than the students qualified from school 'P'. What is the % of students qualified to the number of students appeared from school 'Q' ?

a. 80.76% b. 75.5% c. 60.50% d. 43 %

27) A fruit seller had some mangoes. He sells 30% mangoes and still has 280 mangoes. Find the number of mangoes he had.

a. 588 mangoes b. 400 mangoes c. 672 mangoes d. 700 mangoes

28) The population of a city is 160,000. If it increases at the rate of 6% per annum, then what will be its population 2 years hence?

a. 268942 b. 186935 c. 179776 d. 167425

29) The number which exceeds 12% of it by 52.8 is:

a. 50 b. 52 c. 58 d. 60

30) If the sales tax be reduced from 4 (1/3) % to 2 (1/2) %, then what difference does it make to a person who purchases a bag with marked price of Rs. 8000?

a. Rs. 156.66 b. Rs. 150.23 c. Rs. 146.66 d. Rs. 135.06

31) Evaluate : 28% of 400 + 45 % of 250

a. 220.3 b. 224.5 c. 190.3 d. 150

- 32) If the population of a city increases by 5 % annually, what will be the population of the city in 2 years time if its current population is 78000?**
- a. 81900 b. 85995 c. 85800 d. 90000
- 33) For a candidate to clear an examination, he/she must score 55% marks. If he/she gets 120 and fails by 78 marks, the total marks for the examination is**
- a. 300 b. 360 c. 400 d. 320
- 34) In a class, 20% of the students were absent for an exam. 30% failed by 20 marks and 10% just passed. Find the average score of the class if the remaining students scored an average of 65 marks and the cut off for passing the exam is 40.**
- a. 45 b. 49 c. 36 d. 40
- 35) If the salary of an employee is first increased by 20% and then decreased by 12%, then what is the change in his salary in percent?**
- a. 16% increase b. 16% decrease c. 5.6 % increase d. 8 % increase
- 36) Find number which is 70% less than 60.**
- a. 18 b. 42 c. 20 d. 40
- 37) A man bought 6 pencils for Rs 5 and sold them at 5 pencils for Rs. 6. Calculate his gain percentage**
- a. 30% b. 33% c. 33.33% d. 44%
- 38) What fraction is equivalent to 0.8% ?**
- a. 1/125 b. 2/25 c. 4/5 d. None of these
- 39) A vehicle has an insurance of 4/5 of its original value. Premium on the vehicle at the rate of 1.3% amounts to 910 Rs. What is the original value of the vehicle?**
- a. 78,500 b. 82,500 c. 87,500 d. 90,000
- 40) 300 gm of sugar solution has 40% sugar. How much sugar should be added to make it 50% in the solution?**
- a. 55 gm b. 60 gm c. 70 gm d. 40 gm