



Work Sheet
on
Percentage

Aptitude Training Course

BOARD INFINITY

Work-sheet on Percentage

1. Fresh Grapes contain 90% water by wt. Dried grapes contain 20% water by %age. What will be wt of dried grapes when we begin with 20 kg fresh grapes?
(a) 2kg (b) 2.4kg (c) 2.5kg (d) none
2. If 70% of a no. is subtracted from itself, it reduces to 81. What is two fifth of that number?
(a) 108 (b) 54 (c) 210 (d) None of these
3. During a given week A programmer spends $\frac{1}{4}$ of his time preparing flow chart, $\frac{3}{8}$ of his time coding and the rest of the time in debugging the programs. If he works 48 hours during the week, how many hours did he spend debugging the program.
(a) 4 (b) 8 (c) 20 (d) 18
4. A man owns $\frac{2}{3}$ of the market research business and sells $\frac{3}{4}$ of his shares for Rs. 75000. What is the value of Business?
(a) 25000 (b) 100000 (c) 125000 (d) 150000
5. From its total income, a sales company spent Rs. 20,000 for advertising, half of the remainder on commissions and had Rs.6000 left. What was its total income?
(a) 6000 (b) 12000 (c) 20000 (d) 32000
6. On Monday a banker processed a batch of cheques, on Tuesday she processed three times as many, and on Wednesday she processed 4000 cheques. In the three days, she processed 16000 cheques. How many did she process on Tuesday?
(a) 4000 (b) 5000 (c) 9000 (d) 12000
7. A tape manufacturer reduces the price of his heavy duty tape from Rs.30/- to Rs.28/- a reel and the price of a regular tape from Rs.24/- to Rs.23/- a reel. A computing

centre normally spends Rs.1440/- a month for tapes and $\frac{3}{4}$ of this is for heavy duty tapes. How much will they save a month under the new prices?

- (a) 24 (b) 45 (c) 87 (d) 69

8. In a certain company, 20% of the men and 40% of the women attended the annual company picnic. If 35% of all the employees are man, what percent of all the employees went to the picnic?

- (a) 7% (b) 33% (c) 35% (d) 60%

9. The price of raw materials has gone up by 15%, labour cost has also increased from 25% of the cost of raw material to 30% of the cost of raw material. By how much percentage should there be a reduction in the usage of raw materials so as to keep the cost same

- (a) 16.66% (b) 20% (c) 25% (d) 33.33%

10. Rani's weight is 25% of Meena's weight and 40% of Tara's weight. What percentage of Tara's weight is Meena's weight?

- (a) 15% (b) 60% (c) 62.5% (d) 160%

11. Three years ago a friend offered me a used typewriter for Rs. 1024. A year later he offered me the same for Rs. 640 and last year he wanted Rs. 400 and now he is willing to sell it to me for Rs. 250. But I have decided to buy it when he reduces the price next time, if he is constantly reducing its price, at what price will he offer the typewriter to me next?

- (a) Rs.150.45 (b) Rs.156.25 (c) Rs.211.25 (d) Rs.206.75

12. A sale was announced in a shop for 25% on all items. Recognizing the loss, the owner increased the price tag of all the items by 15%., What will be the net change in the price of an item?

- (a) Decreased by 13.75% (b) Increased by 13.75%
(c) Decreased by 12.75% (d) Increased by 12.75%

13. A television manufacturing company has decided to increase the sale to beat the economic slowdown. It decides to reduce the price of television sets by 25% as a

result of which the sales increased by 20%. What is the effect on the total revenue of the company?

- (a) Decreased by 20% (b) Increased by 20%
(c) Increased by 10% (d) Decreased by 10%

14. Two numbers are 40 % and 60% more than a third number. By what percentage is the first number less than the second number?

- a) 20% b) 25% c) 12.5% d) 10%

15. Two-third of one-third of a number is equal to three-fifth of five-ninth of another number. What is percent of the second number is the first?

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

16. One diagonal of a rhombus is increased by 10%. By what percentage should the length of the other diagonal be reduced in order to keep the area constant?

- a) 10% b) 11% c) $10\frac{1}{11}\%$ d) $9\frac{1}{11}\%$

17. On boiling 3 litres of water are evaporated from 12 liters of a sugar solution containing 10% sugar. Find the percentage of sugar in the remaining solution.

- a) 11.33% b) 13.11% c) 11.11% d) 13.33%

18. The ratio of the earnings of Rakesh and Suresh is 150%. If the earnings of Rakesh are increased by 20% and the ratio given decreases by 30 percentage points, then what is the percentage increase or decrease in the earnings of Suresh?

- a) 50% b) 25% c) 12.5% d) 33.33%

19. Praneeth spends 70% of his income. His income increases by 50% while his expenditure also increases by 40%. What is the percentage increases in his savings?

- a) 33.33% b) 53.33% c) 43.33% d) 73.33%

20. The production of rice increased by 275 million tonnes in 1995 to 330 million tonnes in 1996. What is the percentage increase?
- a) 20% b) 25% c) 22% d) 30%
21. In a class of 96 girls, 16 were absent and 35% of the remaining failed to do homework. How many girls, who were present, did the homework?
- a) 46 b) 48 c) 50 d) 52
22. The salary of all officers is increased twice successively by 20%. What is the net percentage increase in their salaries?
- a) 20% b) 40% c) 21% d) 44%
23. Vasmi gets 40% of the total marks in an examination and gets 14 marks more than the pass mark. But Rani scored 30% of the total marks and fails by 16 marks in the same examination. Find the maximum marks.
- a) 600 b) 400 c) 300 d) 500
24. In an examination 1,600 students appeared. $\frac{1}{4}$ th of them were girls and the rest are boys. 50% of the girls failed and 75% of the boys passed. What was overall percentage of students who failed?
- a) 25% b) $31\frac{3}{4}\%$ c) $31\frac{1}{4}\%$ d) $37\frac{1}{2}\%$
25. The salary of an employee is increased twice successively by 25% and 20% respectively. What are the two successive deductions that should be made to bring back his original salary level?
- a) 20%; 25% b) 25%; $16\frac{2}{3}\%$ c) 20%; $16\frac{2}{3}\%$ d) 22%; 23%

26. Harish drinks $\frac{3}{5}$ th of the milk in a glass. Krishna drinks 20% of the remaining. How much milk does the glass contains if Krishna drank 60 ml.
- a) 500 ml b) 250 ml c) 750 ml d) 1000 ml
27. By what percent does the side of the square increases if its area increased by 125%?
- a) 50% b) 40% c) 60% d) 30%
28. The mean annual salary of paid to all employees of a company was Rs, 8,000. The mean annual salaries paid to male and female employees were Rs. 7,000 and Rs. 12,000 respectively. What is the percentage of male workers in the company?
- a) 80% b) 20% c) 60% d) 50%
29. In Hyderabad city, legal water connections form 80% of the total connections. If 90% of the houses in the city have water connections, then what percent of the houses in the city have illegal water connections?
- a) 28 b) 18 c) 10 d) 20
30. The population of a city decreases annually by 20%. What will be the percentage decreases in two years?
- a) 16.64% b) 36% c) 40% d) 44%
31. After spending 20% on machinery, 10 % on building, 9% on raw materials and 7 % on others, Chandra had a balance of Rs. 2,700. The money with him initially was,
- a) Rs. 5000 b) Rs. 6000 c) Rs. 7000 d) Rs. 8000
32. A person buys wheat for Rs. 200. A rise of 10% in the price compels him to buy 2 kg less. Find the price per kg before and after the increase respectively.

- a) Rs. $19\frac{1}{11}$, 12 b) Rs.10, Rs.11 c) Rs. $9\frac{1}{11}$, Rs.10. d) None of these

33. A, B and C contest an election from a particular constituency. A and B together got 50 % more votes than C. The vote shares of A and C together is 30% points more than the vote of B. Who won the election?

- a) A b) B c) C d) cannot be determined

34. The population of a village is 12,000. $\frac{7}{12}$ th of them are males and the rest females. 40% of the males are married. All marriages are monogamous and married people have their spouses living with them. What percentage of females is married?

- a) 58% b) 56% c) 56.5% d) 57.5%

35. Instead of increasing the salary of a salesman twice successively by 20%, the employer has given a one-time 40 % hike. What is the loss or gain for the employee if his original salary was Rs. 1,000?

- a) Rs. 4 gain b) Rs. 40 Loss c) Rs. 40 gain d) No gain no loss

36. A man earns twice as much as his wife does. If his expenditure is 80% of his wife's income and he saves Rs. 1800. What is his wife's salary?

- a) Rs. 1550 b) Rs. 1200 c) Rs. 2000 d) Rs. None of these

37. In a physics exam, a student scored 40 % in the first paper, out of 150 marks. How much should he score in the second paper, out of 200 marks, if he has to get 60 % marks in the two papers together?

- a) 70% b) 50% c) 75% d) 60%

38. Mahesh purchased 6 mangoes, 10 oranges and 5 apples for a certain amount. With 40% less amount Arvind could purchase 3 mangoes, 5 oranges and 4 Apples. What percentage of the total amount did Mahesh spend on Apple?

- a) 25% b) $33\frac{1}{3}\%$ c) 40% d) Can't be determined

39. Mahesh purchased 6 mangoes, 10 oranges and 5 apples for a certain amount. With 40% less amount Arvind could purchase 3 mangoes, 5 oranges and 4 Apples. If the cost of a mango to that of an orange is 7:3, what percentage of the total amount did Arvind pay for mangoes?

- a) $26\frac{2}{3}\%$ b) 25% c) $23\frac{1}{3}\%$ d) None of these

40. A man divides Rs. 9000 into 3 unequal parts and invests them at 5%, 6% and 8 % per annum. At the end of one year he receives an interest of Rs. 580 on his total investment. If he receives equal interest from two of his investments, how much did he invest at 6 %, which is more than the investment at 5 %?

- a) Rs. 3,500 b) Rs. 4,000 c) Rs. 3,000 d) Can't be determined.