MATHS

BOOKS - RD SHARMA MATHS (HINGLISH)

PERCENTAGE

Others

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1. change the following fraction into percentage (1) $\frac{7}{25}$ (2) $\frac{14}{625}$ (3) $\frac{5}{8}$ (4) 0.8

2. Write each of the following percent:

(i) 0.005 　　　(ii) 3: 25 　　(iii) 11: 80 　　　(iv) 111:125

3. Write each of the following as percent: (i) 0.005 (ii) $\dfrac{3}{25}$ (iii) $\dfrac{11}{80}$ (iv) $\dfrac{111}{125}$

4. Convert the following percentages to fractions and ration: 25%   (ii) 2.5%   (iii) 0.25%   (iv) 0.3% (v) 125%

5. Express the following as decimal fractions:

27% (ii) 6.3% (iii) 32% 0.25% (v) 7.5% (vi) $\frac{1}{8}$ %

6. Find : $(i)\,12\,\%\,of\,Rs\,1200$

 (ii) $13\,\%\,of\,Rs\,6500$

(iii) $20\,\%\,of\,Rs\,800$

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7. If 23% of a is 46, then find a .

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8. 72% of 25 students are good at mathematics. How many are not good at it?

9. A football team won 10 games from the total they played. This was 40% of the total. How many games were played in all?

10. If Chameli had Rs 600 left after spending 75% of her money, how much did she have in the beginning ?

11. 78.8% of a common medicine for stomach-up sets is absolute alcohol; 3.3% of it is menthe oil, and 0.177% chloroform. How much of each of these compounds is there in a pack of 30 ml?

12. A nursery has 5000 plants. 5% of the plants are roses and 1% are mango plants. What is

the total number of other plants?

13. Malvika gets 98 marks in her exams. This amounts to 56% of the total marks. What are the maximum marks?

14. A certain company has 80 employees who are engineers. In this company engineers

constitute 40% of its work force. How many people are employed in the company?

15. Kishan spends 30% of his salary on food and donates 3% of his salary in a temple. In a particular month, he spends Rs 231 on these two items. What is his total salary for this month?

16. Out of her total income Mrs Sharma spends 20% on house rent and 70% of the rest on household expenditure. If she saves Rs 1800, what is the total income?

17. Anushree has to pay 4% sales tax in addition to the price of a certain article. Find the price of the article , if she pays Rs 260 in all.

18. A man loses 20% of his money. After spending 25% of the remainder, he has Rs 480.00 left. How much money did he originally have ?

19. An alloy contains 36% zinc, 40% copper and the rest is nickel. Find in grams the quantity of each of the contents in a sample of 1 kg alloy.

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

21. Rakesh's income is 25% more than that of rohan. What percent is Rohan's income less than rakesh's income?

22. Rishi requires 40% to pass. If he gets 185 marks, falls short by 15 marks what were the maximum marks he could have got?

23. The value of a machine depreciates every year by 10%. What will be its value after 2 years if its present value is Rs 50,000?

24. The population of a town increases by 6% every year. If the present population is 15900, find its population a year ago.

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25. The price of sugar goes up by 20%. By how much percent must a house wife reduce her consumption so that the expenditure does not increase?

26. A number is increased by 10% and then it is decreased by 10%. Find the net increase or decrease percent.

27. The salary of an officer has been increased by 50%. By what percent the new salary must be reduced to restore the original salary?

28. Find the percent of pure gold is 22-carat gold, if 24 carat gold is hundred percent pure gold.

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29. If 60% people in a city like cricket, 30% like football and remaining like other games. What percent like the other games? If the total

number of people is 56 lakhs, find the exact number who like each type of game.

30. Find : 22% of 120   (ii) 25% of Rs 1000 (iii)25% of 10kg   (iv) 16.5% of 5000 metre 135% of 80 cm   (vi) 2.5 % of 10000 ml

31. Find the number a , if 8.4% of a is 42 (ii) 0.5% of a is 3 $\dfrac{1}{2}$ % of a is 50 (iv) 100 % $of\ a\ is$ 100

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32. x is 5% of y, y is 24% of z . If $x = 480$, find the values of $y\ and\ z$.

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33. A coolie deposits Rs 150 per month in his post office savings bank account. If this is 15% of his monthly income, find his monthly income.

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34. Asha got 86.875% marks in the annual examination. If she got 695 marks, find the total number of marks of the examination.

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35. Deepti went to school for 216 days in a full year. If her attendance is 90%, find the number of days on which the school was opened.

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36. A garden has 2000 trees. 12% of these are mango threes, 18% lemon and the rest are orange trees. Find the number of orange threes.

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37. Balanced diet should contain 12% of proteins, 25% of fats and 63% of carbohydrates. If a child needs 2600 calories in this food daily, find in calories the amount of each of these in his daily food intake.

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38. A cricketer scored a total of 62 runs in 96 balls. He hit 3 sixes, 8 fours, 2 twos and 8

singles. What percentage of the total runs came in sixes   (ii) fours   (iii) twos   (iv) singles

39. A cricketer his 120 runes in 150 balls during a test match. 20% of the runs came in 6's, 30% in 4's, 25% in 2's and the rest in 1's. How many runs did he score in 6's   (ii) 4's   (iii) 2's   (iv) singles What % of his shots were scoring ones?

40. Radha earns 22% of her investment. If she earns Rs 187, then how much did she invert?

41. Rohit deposits 12% of his income in a bank. He deposited Rs 1440 in the bank during 1997. What was his total income for the year 1997?

42. Gunpowder contains 75% nitre and 10% sulphur. Find the amount of the gunpowder which carries 9 kg nitre. What amount of gunpowder would contain 2.3 kg sulphur?

43. An alloy of tin and copper consists of 15 parts of tin and 105 parts of copper. Find the percentage of copper in the alloy?

44. An alloy contains 32% copper, 40% nickel and rest zinc. Find the mass of the zinc is 1 kg of the alloy.

45. A motorist travelled 122 kilometres before his first stop. If he had 10% of his journey to complete at this point, how long was the total ride?

46. A certain school has 300 students, 142 of whom are boys. It has 30 teachers, 12 of whom are men. What percent of the total number of students and teachers in the school is female?

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47. Aman's income is 20% less than that of Anil. How much percent is Anil's income more than Aman's income?

48. The value of a machine depreciates every year by 5%. If the present value of the machine be Rs 100000, what will be its value after 2 years?

49. The population of a town increases by 10% annually. If the present population is 60000, what will be its population after 2 years?

50. The population of town increases by 10% annually. If the present population is 22000, find the its population a year ago.

51. Ankit was given an increment of 10% on his salary. His new salary is Rs 3575. What was his salary before increment?

52. The price o petrol rose by 10%. By how consumption should be reduced so that expenditure does not increase.

53. Mohan's income is Rs 15500 per month. He saves 11% of his income. If his income increases by 10% then reduces his saving by 1%, how much does he save now?

54. Shikha's income is 60% more than that of Shalu. What percent is Shalu's income less than shikha's?

55. Rs 3500 is to be shared among three people so that the first person gets 50% of

the second, who is turn gets 50% of the third.

How much will each of them get?

56. After a 20% hike, the cost of Chinese Vase

in Rs 2000. What was the original price of the

object?