



MATHS

BOOKS - RD SHARMA MATHS (ENGLISH)

PERCENTAGE



1. Express the following percents as fractions

in the simplest forms:

(i)57%

(ii) 36%

(iii)115%

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2. Express each of the following percents as fractions in the simplest forms:

(i)0.375%

(ii) 0.4%

(iii)
$$16rac{2}{3}~\%$$

3. Express each of the following fractions as percents:

(i)
$$\frac{4}{5}$$

(ii) $\frac{9}{20}$
(iii) $5\frac{1}{4}$

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4. Express each of the following into percents:

(i)0.375

(ii) 0.005

(iii)2.45



5. Express each of the following per cents as

fractions in the simplest forms:

(i)45%

(ii) 0.25%

6. Express each of the following per cents as

fractions in the simplest forms:

(i)150%

(ii) $6\frac{1}{4}$ %

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7. Express each of the following fractions as a

percent:

(i)
$$\frac{3}{4}$$

(ii) $\frac{53}{100}$





8. Express each of the following fractions as a

percent:

(i)
$$1\frac{3}{5}$$

(ii) $\frac{7}{20}$



9. Express the following as percents:

(i)6:5

(ii) 30:80

(iii) 3:12



11. Express each of the following ratios as percents:(i)4:5

(ii) 1:5

(iii)11:125

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12. Express each of the following percents as ratio in the simplest forms:

(i)2.5%

(ii) 0.4%
(iii)
$$13\frac{3}{4}\%$$

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13. Express each of the following as a decimal:

(i)65%

(ii) 12%



14. Express each of the following as a decimal:

(i)7.4%

(ii) 0.1%



15. Express each of the following as percent:

(i)0.037

(ii) 0.002

(iii)1.2



16. Express each of the following percents as decimals:

(i)12.5%

(ii) 75%

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17. Express each of the following percents as

decimals:

(i)128.8%

(ii) 0.05%



18. Express each of the following decimals as

percent:

(i)0.004

(ii) 0.24

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19. Express each of the following decimals as percent:

(i)0.02

(ii) 0.275



20. Write each of the following as whole

numbers or mixed numbers:

(i)136%

(ii) 250%

(iii)300%

21. Find

(i) $30\,\%\,$ of Rs 180

(ii) 16~% of 25 litres

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22. Find

(i) $4rac{1}{2}$ % of Rs 1800

(ii) $10~\%\,$ of 350 km

(iii) $120~\%\,$ of 20 kg



23. Find a number whose 4% is 72.



24. What is the sum of money of which 8% is

Rs 480?

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25. Find each of the following:

(i) 7% of Rs 7150



- **26.** Find each of the following:
- (i) 20% of 15.125 litres
- (ii) $3\frac{1}{3}$ % of 90 km
- (iii) $2.5\,\%\,$ of 600 metres

27. Find the number whose
$$12\frac{1}{2}$$
 % is 64.



30. What percent of 25 kg is 3.5 kg?



33. Express 18 hours as a percent of 3 days.



36. What percent of

(i) 24 is 6?

(ii) Rs 125 is Rs 10?

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37. What percent of (i) 4 km is 160

metres? (ii) Rs 8 is 25 paise?

38. What percent of

(i) 2 days is 8 hours?

(ii) 1 litre is 175 ml?

39. What percent is equivalent to $\frac{3}{8}$?



40. Find the following:

(i) 8 is 4% of which number?

(ii) 6 is 60% of which number?



41. Find the following:

(i) 6 is 30% of which number?

(ii) 12 is 25% of which number?

42. Convert each of the following pairs into percentages and find out which is more? (i) 25 marks out of 30, 35 marks out of 40. (ii) 100 runs scored off 110 balls, 50 runs scored off 55 balls.

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43. Find 20% more than Rs 200.

44. Find 10% less than Rs 150.



45. Sarita secured 84% marks in Hindi paper. If the maximum marks in the paper are 150, find the marks secured by her in the paper.

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46. 55% of the population of a town are males.

If the total population of the town is 64100,

find the population of females in the town.



47. In an election, out of 75000 eligible voters 50000 cast their votes. What was the percentage of people casting their votes?

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48. A basket contains 350 eggs. If 12% of the eggs are rotten, find the number of eggs,

good enough to be sold.

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49. In a fabric, cotton and synthetic fibres are in the ratio of 2:3. what is the percentage of cotton fibre in the fabric?

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50. A man spends 92% of his monthly income.

If he saves Rs 220 per month, what is his



51. In an examination, 94% of the candidates passed and 114 failed. How many candidates appeared?

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52. 12% of the employees in a factory are females and the number of male employees is

264. Find the total number of employees. Also,

find the number of female employees.



53. In a school, 720 are boys and 40% are girls.

Find the number of girls.

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54. A student scored 3 marks more than what he did in the previous examination in which he

had scored 12. Another student scored 12 marks more than he did in the previous examination in which he had scored 84. Who had shown more. Improvement?



55. The size of a bag that could hold 5 kg of sugar has now been increased so that it can hold 6 kg. What is the percentage increase in size?

56. Ashu had 24 pages to write. By the evening,

he had completed 25% of his work. How many

pages were left?

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57. A box contains 60 eggs. Out of which $16\frac{2}{3}$ % are rotten ones. How many eggs are rotten?

58. Rohit obtained 45 marks out of 80. What

per cent marks did he get?

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59. Mr Virmani saves 12% of his salary. If he receives Rs 15900 per month as salary, find his monthly expenditure.

60. A lawyer willed his 3 sons Rs 250000 to be

divided into portions 30%, 45% and 25%. How

much did each of them inherit?



61. Rajdhani College has 2400 students, 40%

of whom are girls. How many boys are there in

the college?

62. Amar obtained 410 marks out of 500 in an examination while his friend Rajiv gets 536 marks out of 600. Find whose performance is better.



63. Rahim obtained 60 marks out of 75 in Mathematics. Find the percentage of marks obtained by Rahim in Mathematics.

64. In an orchard, $16\frac{2}{3}$ % of the trees are apple trees. If the number of trees in the orchard is 240, find the number of other type of trees in the orchard.

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65. Ram scored 553 marks out of 700 and Gita

scored 486 marks out of 600 in science. Whose

performance is better?

66. Out of an income of Rs 15000, Nazima spends Rs 10200. What per cent of her income

does she save?



67.45% of the students in a school are boys. If

the total number of students in the school is

880, find the number of girls in the school.



68. Mr. Sidhana saves 28% of his income. If he saves As 840 per month, find his monthly income.



69. In an examination, 8% of the students fail. What percentage of the students pass? If 1650 students appeared in the examination, how many passed?



70. In an examination, 92% of the candidates passed and 46 failed. How many candidates appeared?



71.
$$\frac{2}{5}$$
 as percent is

A. 30%

B. 35%

C. 40%

D. 45%

Answer: C



73. The ratio 3:5 as a percent is

(a) 60%

(b) 50%

(c) 40%

(d) 80%

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74.12% as a fraction is

(a)
$$\frac{3}{25}$$

(b) $\frac{4}{25}$

(c) $\frac{3}{20}$ (d) $\frac{6}{25}$

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76. Which of the following fractions is equivalent to 25%? (a) $\frac{1}{4}$ (b) $\frac{1}{5}$ (c) $\frac{1}{3}$ (d) $\frac{1}{2}$ Watch Video Solution

77. If 25% of x is 100, then x =

(a) 100

(b) 200

(c) 300

(d) 400



79. If x~%~ of 75 is 12, then x=

(a) 8

(b) 10

(c) 12

(d) 16

80. If
$$\frac{5}{6}$$
 of 29% of x is 29, then $x =$
(a) 290
(b) 58

(c) 120

(d) 100



81. What percent of
$$\frac{2}{7}$$
 is $\frac{1}{35}$?

- (a) 25%
- (b) 20%
- (c) 15%
- (d) 10%



82. If x = 100, then 120% of x is

(a) 125

(b) 115

(c) 120

(d) 110

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83. 40% of 150+60% of 150=

(a) 200

(b) 150

(c) 250

(d) 180



85. 55% of 1000 ÷ 60% of 2000=





86. If x % of 2000=600, then x =

(a) 60

(b) 30

(c) 40

(d) 50

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87. If
$$x \%$$
 of $\frac{12}{5}$ is $\frac{18}{25}$, then $x =$

(a) 30

(b) 40

(c) 72

(d) 50

88. The value of 30% of 60% of 200 is

(a)23

(b) 24

(c)18

(d) 36

89. If
$$\frac{2}{5}$$
 of 50% of x is 10, then $x =$
(a) 100
(b) 50

(c) 25

(d) 80

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90. If
$$\frac{4}{7}$$
 of 49% of x is 21, then $x =$
(a) 125
(b) 98
(c) 84

(d) 75



91. Which of the following fractions is equivalent to 12.5%? (a) $\frac{1}{8}$ (b) $\frac{1}{6}$ (c) $\frac{1}{5}$ (d) $\frac{1}{12}$ Watch Video Solution 92. Ravish saves 55% of his income. If his

income is Rs 11000, then his expenditure is

(a) Rs 6050

(b) Rs 7450

(c) Rs 4950

(d) Rs 3550

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93. If 35% of a number added to 39 is the number itself, the number is

(a) 60

(b) 65

(c) 75

(d) 105





94. On increasing the salary of a man by 25%, it becomes Rs 20,000. What was his original salary?

(a) Rs 15000

(b) Rs 16000

(c) Rs 18000

(d) Rs 25000

95. Rohit scored 180 marks in the first test and 150 marks in the second test. The maximum marks in each test is 200. What is the decrease in his performance in percentage points? (a) 20% (b) 15% (c) 25% (d) 23%

