

**RD** Sharma Solutions for Class 7 Maths Chapter 11 Percentage

### EXERCISE 11.6

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1. Ashu had 24 pages to write. By the evening, he had completed 25% of his work. How many pages were left?

#### Solution:

Given total number of pages Ashu had to write = 24 Number of pages Ashu completed by the evening = 25% of 24 = (25/100) × 24 = 600/100 = 6 Therefore number of pages left for completion = 24 - 6 = 18 pages

## 2. A box contains 60 eggs. Out of which 16(2/3) % are rotten ones. How many eggs are rotten?

#### Solution:

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Given that total number of eggs = 60
Number of eggs rotten = 16 (2/3) % of 60 eggs
= 16.66 % of 60 eggs
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- = (16.66/100) × 60
- = 10 eggs

Therefore number of eggs rotten = 10

#### 3. Rohit obtained 45 marks out of 80. What per cent marks did he get?

#### Solution:

Given total number of marks = 80 Marks scored by Rohit = 45 Percentage obtained by Rohit = (45/80) × 100 = 56.25%

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

Solution:



Given Mr Virmani's salary per month = Rs. 15900 Mr Virmani's savings = 12% of Rs. 15900 = (12/100) × 15900 = Rs. 1908 Mr Virmani's monthly expenditure = salary - savings = Rs. (15900 - 1908) = Rs. 13992

## 5. A lawyer willed his 3 sons Rs 250000 to be divided into portions 30%, 45% and 25%. How much did each of them inherit?

### Solution:

Given total amount with the lawyer = Rs. 250000

First son's inheritance = 30% of 250000

= (30/100) × 250000

- = 7500000/100
- = Rs. 75000

Second son's inheritance = 45% of 250000

- = (45/1000) × 250000
- = 11250000/100
- = Rs. 112500

Third son's inheritance = 25% of 250000

- = (25/100) × 250000
- = 6250000/100
- = Rs. 62500

6. Rajdhani College has 2400 students, 40% of whom are girls. How many boys are there in the college?

### Solution:

Given total number of students in Rajdhani College = 2400 Number of girls = 40% of 2400 =  $(40/100) \times 2400$ = 96000/100= 960Number of boys = total number of students – number of girls = 2400 - 960 = 1440 boys

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### 7. Aman obtained 410 marks out of 500 in CBSE XII examination while his brother Anish gets 536 marks out of 600 in IX class examination. Find whose performance is better?

### Solution:

Given Aman's marks in CBSE XII = 410/500 Percentage of marks obtained by Aman = (410/500) × 100 = 82% Given that Anish's marks in CBSE IX = 536/600 Percentage of marks obtained by Anish = (536/600) × 100 = 89.33% Clearly 89.33 > 82 Therefore, Anish's performance is better than Aman's

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

#### Solution:

Given marks obtained by Rahim in mathematics = 60/75Percentage of marks obtained by Rahim =  $(60/75) \times 100$ = 80%

## 9. In an orchard, 16 (2/3) % of the trees are apple trees. If the number of trees in the orchard is 240, 3 find the number of other type of trees in the orchard.

#### Solution:

Let the number of apple trees be x Number of trees in the orchard = 240 Number of apple trees = 16 (2/3) % According to the given condition, 16 (2/3) % of 240 = x = 16.66 % of 240 = x x = (16.66/100) × 240 x = 40 trees Number of other types of trees = Total number of trees - number of apple trees = 240 - 40 = 200 trees



# 10. Ram scored 553 marks out of 700 and Gita scored 486 marks out of 600 in science. Whose performance is better?

### Solution:

Given marks scored by Ram = 553/700Percentage of marks scored by Ram =  $(553/700) \times 100$ =  $0.79 \times 100 = 79\%$ Also given that marks scored by Gita = (486/600)Percentage of marks scored by Gita =  $(486/600) \times 100$ =  $0.81 \times 100 = 81$ Gita's performance (81%) is better than Ram's (79%).

## 11. Out of an income of Rs 15000, Nazima spends Rs 10200. What per cent of her income does she save?

#### Solution:

Given Nazima's total income = Rs 15000 Amount Nazima spends = Rs 10200 Amount Nazima saves = 15000 - 10200 = Rs 4800 Percentage of income Nazima saves = (4800/10200) × 100 = 480000/10200 = 32% Nazima saves 32% of her income.

## 12. 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.

#### Solution:

Given total number of students in the school = 880 Number of boys in the school = 45% of 880 = (45/100) × 880 = 39600/100 Number of boys = 396 Number of girls in the school = total number of students - number of boys = 880 - 396 Number of girls = 484

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# 13. Mr. Sidhana saves 28% of his income. If he saves as 840 per month, find his monthly income.

#### Solution:

Let Mr. Sidhana's monthly income be x Monthly savings of Mr. Sidhana's = Rs 840 28% of x = Rs 840  $\Rightarrow$  (28/100) × x = Rs 840  $\Rightarrow$  28x = Rs 84000  $\Rightarrow$  x = (84000/28) = Rs 3000 Mr. Sidhana's monthly income = Rs 3000

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

#### Solution:

Given total number of students who appeared for the examination = 1650 Number of students who failed = 8% of 1650 =  $(8/100) \times 1650$ =  $(8 \times 1650)/100$ = 13200/100Number of students who failed = 132Number of students who passed = 1650 - 132= 1518Percentage of students who passed =  $(1518/1650) \times 100$ =  $0.92 \times 100 = 92\%$ 92% of the students passed the examination.

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

#### Solution:

Let the total number of candidates be x Number of candidates who failed = 46 Number of candidates who passed = 92% of x According to the given condition 92% of x = x - 46

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 $\Rightarrow (92/100) x = x - 6$   $\Rightarrow 92x = 100x - 4600$   $\Rightarrow -8x = -4600$   $\Rightarrow x = 4600/8 = 575$ Number of candidates who appeared for the examination = 575

