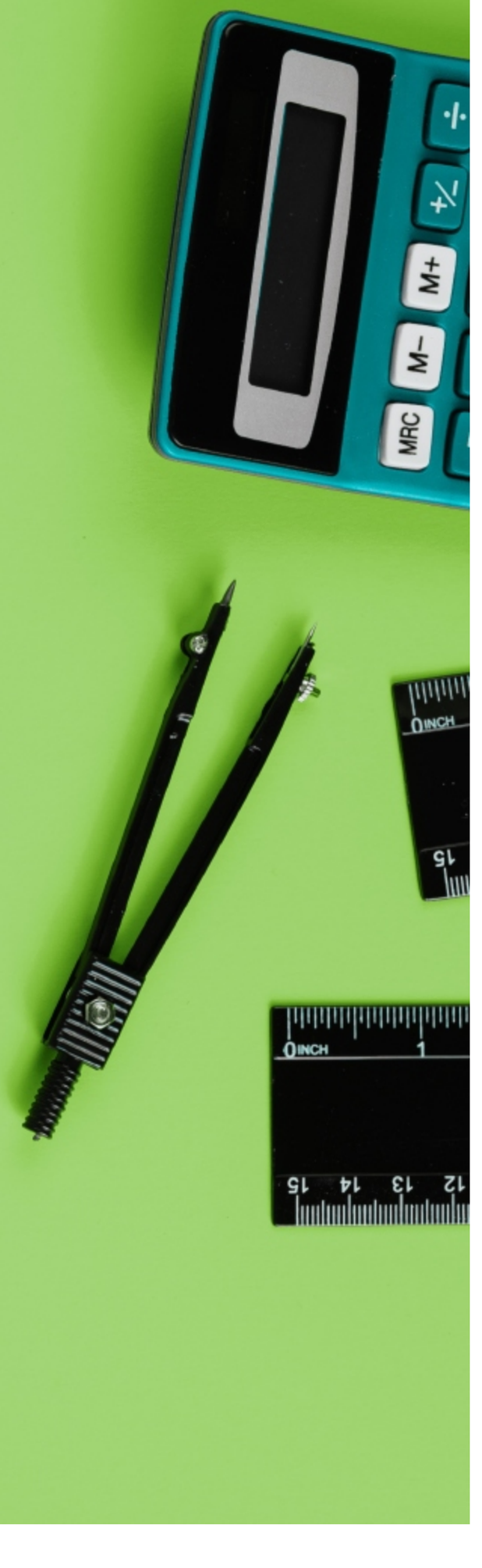
RD Sharma Solutions

Class 7

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Exercise 11.6

Q.1 Ashu had 24 Pages to write. By the evening he had Completed 25% of his work. How many pages were left.

Solution: Total Pages Ashu had to write = 24 Pages.

No. of Pages written by evening = 25% of 24

$= \frac{25}{100} \times 24 = 6$ Pages

Then. No. of pages left = 24 − 6

= 18 Pages.

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

Solution: Total eggs = 60

Rotten eggs = $16\frac{2}{3}$% of 60

$= \frac{50}{3}$% of $60 = \frac{50}{300} \times 60$

= 10 eggs.

Q.3 Rohit obtained 45 Marks out of 80. What percent Marks did he get?

Solution: Percentage of Marks $= \frac{45}{80} \times 100 = \frac{225}{4} = 56\frac{1}{4}$%

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Q.4 Mr. Nomani saves 12% of his salary. If he receives Rs 15900 per month as salary. Find his monthly expenditure.

Solution: Monthly Income = Rs 15900

Savings = 12% of 15900

$= \frac{12}{100} \times 15900 = Rs.1908$

∴ Monthly expenditure = Rs 15900 − Rs 1908

= Rs 13992

Q.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: Total amount with the lawyer = Rs 250000

First son's Inheritence = 30% of 250000

$= \frac{30}{100} \times 250000$

= Rs. 75000

Second son's Inheritence = 45% of Rs. 250000

$= \frac{45}{100} \times 250000 =$ Rs 112500

Third Son's Inheritence = 25% of 250000

$= \frac{25}{100} \times 250000 =$ Rs. 62500

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

Solution: Total students in college = 2400

No. of girls = 40% of 2400

$= \frac{40}{100} \times 2400 = 960$

∴ Number of boys = 2400 − 960

= 1440 boys.

Q.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: Marks obtained by Aman = $\frac{410}{500}$ Marks

% Marks obtained = $\frac{410}{500} \times 100 = 82\%$.

Anish Marks in class IX = $\frac{536}{600}$

% Marks = $\frac{536}{600} \times 100 = 89.33\%$.

Clearly $89.33\% > 82\%$

Therefore, Anish performance is better than Aman.

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Q.8 Rahim obtained 60 marks out of 75 in mathematics. Find the percentage of marks obtained by Rahim in mathematics.

Solution: Marks obtained by Rahim = $\frac{60}{75}$ marks.

% of marks obtained = $\frac{60}{75} \times 100 = 80\%$.

Q.9 In an orchard, $16\frac{2}{3}\%$ of 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.

Solution: Total trees = 240

Apple trees = $16\frac{2}{3}\%$ of 240

$= \frac{50}{300} \times 240 = 40$ trees.

∴ Number of other trees = 240 − 40

= 200 trees.

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

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Solution: % of Marks obtained by Ram = $\frac{553}{700} \times 100$

$= 79\%$

% of Marks obtained by Geeta = $\frac{486}{600} \times 100$

$= 81\%$

$\therefore$ Geeta's performance is better.

Q.11 out of an income of Rs. 15000, Nazima spends Rs. 10200. What percent of her income does she save?

Solution: Total Income of Nazima = Rs 15000

Amount spend = Rs 10,200

$\therefore$ Amount saved = 15000 − 10200

= Rs. 4800

Thus % of Income saved = $\frac{4800}{15000} \times 100$

$= 32\%$

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Q12 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: Total number of students = 880

No. of boys = 45% of 880

$= \frac{45}{100} \times 880 = 396$ boys.

Then number of girls = 880 − 396

= 484 girls.

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

Solution: Let Income of Mr Sidhana = Rs. x

Savings = 28% of x

$\therefore$ 28% of x = 840

$\Rightarrow \frac{28}{100} \times x = 840$

$\Rightarrow x = \frac{840 \times 100}{28}$

$\Rightarrow x = 3000$

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

Solution: Percentage of fallure students = 8%.

Percentage of students passed = (100−8)%.

= 92%.

Total students = 1650

No. of students passed = 92% of 1650

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

Solution: passed candidates = 92%.

failed candidates = (100−92)%.

= 8%.

let total candidates appeared = x

$\therefore$ 8% of x = 46

$\frac{8}{100} \times x = 46 \Rightarrow x = \frac{46 \times 100}{8}$ (1150)

$x = 575$

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