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(Affiliated to CBSE up to +2 Level)

CLASS: VII

SUB.: MATHS

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Question 1:

Solution: P = Rs. 6400, R = 6%, Time = 2 years

$$\text{Simple Interest} = \frac{P \times R \times T}{100} = \frac{6400 \times 6 \times 2}{100} \\ = \text{Rs. 768}$$

$$\text{Amount} = \text{principal} + \text{Simple interest} \\ = 6400 + 768 \\ = \text{Rs. 7168}$$

Question 2:

Solution: P = Rs. 2650, R = 8%, T = $2\frac{1}{2}$ years = $\frac{5}{2}$ years

$$\text{Simple interest} = \frac{P \times R \times T}{100} = \frac{2650 \times 8 \times 5}{100 \times 2} \\ = \text{Rs. 530}$$

$$\text{Amount} = \text{Simple interest} + P \\ = 2650 + 530 \\ = \text{Rs 3180}$$

Question 3:

Solution: P = Rs. 1500, R = 12%, T = $3\frac{3}{12}$ = $\frac{13}{4}$ years

$$\text{Simple Interest} = \frac{P \times R \times T}{100} = \frac{1500 \times 12 \times 13}{100 \times 4} \\ = \text{Rs. 585}$$

$$\text{Amount} = \text{Simple interest} + P \\ = 1500 + 585 = \text{Rs. 2085}$$

Question 4:

Solution: P = Rs. 9600, R = $7\frac{1}{2}\%$, = $\frac{15}{2}\%$ T = 5 month or $\frac{5}{12}$ years

$$\text{Simple Interest} = \frac{P \times R \times T}{100} = \frac{9600 \times 15 \times 5}{100 \times 2 \times 12} \\ = \text{Rs. 300}$$

$$\text{Amount} = \text{Simple interest} + P \\ = 9600 + 300 = \text{Rs. 9900}$$

Question 5:

Solution: P = Rs. 5000, R = 9%, T = 146 days or $\frac{146}{365}$ years

$$\text{Simple Interest} = \frac{P \times R \times T}{100} = \frac{5000 \times 9 \times 146}{100 \times 365}$$

$$= \text{Rs. } 180$$

$$\text{Amount} = \text{Simple interest} + P$$

$$= 5000 + 180 = \text{Rs. } 5180$$

Question 6:

Solution: P = Rs. 6400, R = 6%, Simple Interest = Rs. 1152

$$\text{Time} = \frac{\text{SI} \times 100}{P \times R} = \frac{1152 \times 100}{6400 \times 6}$$

$$= \frac{1152}{384} = 3 \text{ years}$$

Question 7:

Solution: P = Rs. 9540, R = 8%, Simple Interest = Rs. 1908

$$\text{Time} = \frac{\text{SI} \times 100}{P \times R} = \frac{1908 \times 100}{9540 \times 8}$$

$$= \frac{10}{4} = 2\frac{1}{2} \text{ years}$$

Question 8:

Solution: P = Rs. 5000, R = 12%, Amount = Rs. 6450

$$\text{Simple interest} = \text{Amount} - \text{Principal}$$

$$= 6450 - 5000$$

$$= \text{Rs. } 1450$$

$$\text{Time} = \frac{\text{SI} \times 100}{P \times R} = \frac{1450 \times 100}{5000 \times 12}$$

$$= \frac{29}{12} = 2\frac{5}{12} \text{ years}$$

Question 9:

Solution: P = Rs. 8250, Simple interest = 1100, Time = 2 years

$$R = \frac{\text{SI} \times 100}{P \times T} = \frac{1100 \times 100}{8250 \times 2}$$

$$= \frac{1100}{165} = 6.67\%$$