

Ex- 7.4

Simple Interest

① Find The simple interest on

① ₹ 350 ; for 2 years at 11% P.a.

Here $P = ₹ 350$

$T = 2 \text{ yr}$

$R = 11\%$

$$I = \frac{PRT}{100}$$

$$= \frac{₹ 350 \times 11 \times 2}{100}$$

$I = ₹ 77$

Ans = ₹ 77

2 Find simple interest on ₹ 648 for 8 months at $16\frac{2}{3}\%$ P.a

Here $P = ₹ 648$

$R = \frac{50}{3}\%$

$T = 8 \text{ months} = \frac{8}{12} = \frac{2}{3} \text{ yr.}$

$$S.I = \frac{PRT}{100}$$

$$= \frac{₹ 648 \times \frac{50}{3} \times \frac{2}{3}}{100} = ₹ 72$$

Ans: Simple interest = ₹ 72

3

Find the time when

- (i) simple interest on ₹ 2500 at 4% p.a is ₹ 200

Here S.I = ₹ 200

P = ₹ 2500

R = 4%

$$T = \frac{I \times 100}{PR}$$

$$= \frac{200 \times 100}{2500 \times 4}$$

T = 2 yrs

Ans time = 2 yrs

4

Find the rate on interest when S.I on ₹ 1560 in 3 yrs is ₹ 585

Here P = ₹ 1560

T = 3 yrs

I = ₹ 585

$$R = \frac{I \times 100}{PT}$$

$$= \frac{585 \times 100}{1560 \times 3}$$

$$= \frac{25}{2} = 12\frac{1}{2}$$

Ans! Rate = $12\frac{1}{2}\%$

⑤ Find the principal when
 simple interest at 16% per annum
 for $2\frac{1}{2}$ yrs is ₹3840

$$T = 2\frac{1}{2} \text{ yrs}$$

$$I = ₹3840$$

$$R = 16\%$$

$$P = ?$$

$$P = \frac{I \times 100}{RT}$$

$$= \frac{3840 \times 100}{16 \times 2\frac{1}{2}}$$

$$= \frac{3840 \times 100 \times 2}{16 \times 5}$$

$$P = ₹9600$$

Ans) Principal ₹9600