

Ans 1 Let  $P = x$

$$6200 = \frac{x \times 4 \times 6}{100}$$

$$x = \frac{6200 \times 4 \times 6}{100}$$

$$x = 1488$$

Ans 2

$$P = 20000$$

$$R = 5\%$$

$$T = 2$$

$$SI = \frac{P \times R \times T}{100}$$

$$= \frac{20000 \times 5 \times 2}{100}$$

$$\text{Interest} = 2000$$

$$\begin{aligned} \text{Total Amount} &= 20000 + 2000 \\ &= 22000 \end{aligned}$$

$$\begin{aligned} \text{Ans 3 } SI &= P \times R \times T \\ &= \frac{100}{100} \\ &= \frac{6000 \times 3 \times 5}{100} \\ &= 900 \end{aligned}$$

$$\begin{aligned} \text{He has to pay after 1 year} &= 900 \div 3 \\ &= 300 \end{aligned}$$

$$\begin{aligned} \text{Total Amount} &= 6000 + 300 \\ &= 6300 \end{aligned}$$

$$\begin{aligned} \text{Amount he will receive from another person} &= \frac{6000 \times 3 \times 6.5}{100} \\ &= 1170 \end{aligned}$$

$$\begin{aligned} \text{He will receive interest after 1 year} &= 1170 \div 3 \\ &= 390 \end{aligned}$$

$$\begin{aligned} \text{Total Amount} &= 6000 + 390 \\ &= 6390 \end{aligned}$$

$$\begin{aligned} \text{His profit for 1 year} &= 6390 - 6300 \\ &= 90 \end{aligned}$$

Ans 5

$$P = 9600$$

$$R = \frac{5\%}{2} = \frac{11\%}{2}$$

$$T = 3 \text{ years}$$

~~$$CI = P \times R \times T$$~~

~~$$A = P$$~~
$$A = P \left( 1 + \frac{R}{100} \right)^T$$

$$= 9600 \left( 1 + \frac{11}{100 \times 2} \right)^3$$

$$= 9600 \left( \frac{211}{200} \right)^3$$

$$= \cancel{9600} \times \frac{211}{200} \times \frac{211}{200} \times \frac{211}{200}$$

$$= \frac{3 \times 211 \times 211 \times 211}{2500}$$

$$A = 11272.7$$

$$CI = A - P$$

$$= 11272.7 - 9600$$

$$= 1672.7$$

Ans 6 ~~5832~~ = Let the sum =  $x$

$$5832 = x \left( \frac{1 + 8^2}{\frac{25}{100}} \right)^2$$

$$5832 = x \left( \frac{27}{25} \right)^2$$

$$5832 = x \times \frac{27}{25} \times \frac{27}{25}$$

$$5832 \times 25 \times 25 = x \times 27 \times 27$$

$$\frac{729000}{27} = x \times 27$$

$$x = \frac{27000}{27}$$

$$x = 1000$$

Ans 8

Let the time period =  $x$

$$3362 = 3200 \left( 1 + \frac{10}{100 \times 4} \right)^x$$

$$\frac{3362}{3200} = \left( \frac{41}{40} \right)^x$$

$$\left( \frac{41}{40} \right)^2 \times 2 = \frac{41}{40}^x$$

$$2 \times 2 = x$$

$$2$$

$$x = 2$$