

1) Principal (P) = Rs 62500, rate (r) = 8% p.a
 = 4% half yearly

time = $1\frac{1}{2}$ years = 3 half years

$$\text{Amount (A)} = P \left(1 + \frac{r}{100}\right)^n$$

$$= 62500 \left(1 + \frac{4}{100}\right)^3$$

$$= \overset{1}{\cancel{62500}} \times \overset{25}{\frac{104}{\cancel{100}}} \times \overset{26}{\frac{104}{\cancel{100}}} \times \overset{26}{\frac{104}{\cancel{100}}}$$

$$= \text{Rs } 70304.00$$

$$\text{compound Interest} = A - P$$

$$= 70304 - 62500$$

$$= \text{Rs } 7804$$

1) Principal (P) = Rs 10000

time (n) = 1 year = 2 half years

rate (r) = 8% p.a = 4% half yearly

$$\text{amount (A)} = P \left(1 + \frac{r}{100}\right)^n$$

$$= 10000 \left(1 + \frac{4}{100}\right)^2$$

$$= \overset{1}{\cancel{10000}} \times \overset{1}{\frac{104}{\cancel{100}}} \times \overset{1}{\frac{104}{\cancel{100}}}$$

$$= \text{Rs } 10816$$

$$\text{compound Interest (CI)}$$

$$= A - P$$

$$= 10816 - 10000$$

$$= \text{Rs } 816$$