

Chapter 4. Shares and Dividends

Formulae

1. The nominal value (N.V.) of a share is also called the Register value, printed value, Face value (F.V.), etc.
2. The price of a share at any particular time is called its Market value (M.V.).
3. The market value of a share can be the same, more or less than the nominal value of the share depending upon the performance and profits of the company.
 1. If the market value of a share is the same as its nominal value, the share is said to be at par.
 2. If the market value of a share is more than its nominal value, the share is said to be above par or at a premium.
 3. If the market value of a share is less than its nominal value, the share is said to be below par or at a discount.
4. The profit, which a share-holder gets (out of the profits of the company) from his investment in the company, is called dividend.
The dividend is always expressed as a percentage of the nominal value, of the share.
5. Sum invested = No. of shares bought \times M.V. of 1 share
If the share is at par, market value = nominal value
i.e., M.V. = N.V.

6. No. of shares bought

$$= \frac{\text{Sum invested}}{\text{M.V. of 1 Share}}$$

Also, no. of shares bought

$$= \frac{\text{Total dividend}}{\text{Dividend on 1 Share}}$$
$$= \frac{\text{Total income (profit)}}{\text{Income (profit) on 1 Share}}$$

7. Income (return or, profit)

$$= \text{No. of shares} \times \text{rate of dividend} \times \text{F.V.}$$

F.V. = Face value = Nominal value = N.V.

8. Return % = Income (profit)%

$$= \frac{\text{Income}}{\text{Investment}} \times 100\%$$

Formulae Based Questions

Question 1. A man invested Rs. 45,000 in 15% Rs. 100 shares quoted at Rs. 125. When the market value of these share rose to Rs. 140. He sold same shares, just enough to raise Rs. 8,400 calculate.

- (i) The number of shares he still holds.
(ii) The dividend due to him on remaining shares.

Solution : Number of shares bought

$$= \frac{45,000}{125} = 360$$

Number of shares sold to raise ₹ 8,400.

$$= \frac{8,400}{140} = 60.$$

(i) Number of shares he still holds

$$= 360 - 60 = 300.$$

(ii) Dividend on these shares

$$= ₹ (300 \times 15) \\ = ₹ 4,500.$$

Question 2. (i) Which is better investment: 7% Rs. 100 shares at Rs.120 or 8% Rs. 10 shares at Rs. 13.50.

(ii) Mamta invested Rs. 10,846 in buying the shares of a company at Rs. 17 each. If the face value of each share be ₹ 10 and company paid 15% dividend at the end of the year, find the dividend earned by her.

Solution : (i) Case I.

$$\text{Income on ₹ 120} = 7\% \text{ of ₹ 100} \\ = \frac{7 \times 100}{100} = ₹ 7$$

$$\text{So Income on ₹ 1} = ₹ \frac{7}{120} = ₹ 0.058$$

Case II.

$$\text{Income on ₹ 13.50} = 8\% \text{ of ₹ 10} \\ = \frac{8 \times 10}{100} = ₹ \frac{8}{10}$$

$$\text{So Income on ₹ 1} = ₹ \frac{\frac{8}{10}}{13.50} \\ = ₹ 0.059$$

We find that investment in the second case is better than investment in the first case.

Ans.

(ii) Market value of 1 share = ₹ 17

Total invested money = ₹ 10,846

Number of shares bought

$$= \frac{10,846}{17} = 638$$

Face value of 638 shares = 638 × ₹ 10

$$= ₹ 6,380$$

Dividend received by Mamta

$$\begin{aligned} &= ₹ \left(6,380 \times \frac{15}{100} \right) \\ &= ₹ 957. \quad \text{Ans.} \end{aligned}$$

Question 3. Ajay owns 560 shares of a company. The face value of each share is Rs. 25. The company declares a dividend of 9%. Calculate:

(i) The dividend that Ajay will get.

(ii) The rate of interest on his investment, if Ajay had paid Rs. 30 for each share.

Solution : No. of shares = 560

N.V. of one share = ₹ 25

Rate of dividend = 9%

(i) Dividend = No. of shares
× N.V. × Rate of divd.

$$\begin{aligned} &= 560 \times 25 \times \frac{9}{100} \\ &= ₹ 1,260 \end{aligned}$$

(ii) Investment = No. of shares × M.V.

$$\begin{aligned} &= 560 \times 30 \\ &= ₹ 16,800 \end{aligned}$$

∴ Rate of interest on investment

$$\begin{aligned} &= \frac{\text{Dividend}}{\text{Investment}} \times 100 \\ &= \frac{1,260}{16,800} \times 100 \\ &= 7.5\%. \quad \text{Ans.} \end{aligned}$$