After 15% increment it will be ₹115.

Salary after increment	Salary before increment
115	100
34500	x

$$115 \times x = 34500 \times 100 \quad \Rightarrow x = \cancel{34500}^{1500} \times \frac{100}{\cancel{115}_{23}}^{20} = 30000$$

Man's monthly salary before the increment = ₹30,000.

Example 22: In a certain year the population of a country was about 97 crore. If it increases by 2% will be its population after one year?

Solution: Population increased in one year = 2% of 97 crore = 1.94 crore
Total population after one year = (97 + 1.94) crore = 98.94 crore = 98 crore 94 lakh

Alternative Method

New population after one year = $\frac{102}{100} \times 97 = \frac{9894}{100} = 98.94$ crore

Exercise 8.2

1. Find
   a. 60% of 1 km in metres
   b. 35% of ₹500
   c. $6\frac{1}{4}$% of 1200
   d. 2.5% of 300
   e. 12.5% of 400
   f. $11\frac{1}{9}$% of 720
2. Express the required per cent:
   a. 50 paise as a percentage of ₹5
   b. ₹12 as a percentage of ₹20
   c. 2 minutes as a percentage of 1 hour
   d. 250 g as a percentage of 2 kg.
3. Find the number:
   a. $33\frac{1}{3}$% of what number is 24?
   b. 60% of what number is 45?
   c. 25% of what number is 9?
   d. 75% of what number is 18?
4. Find the whole quantity if
   a. 13% of the whole amount is ₹1170
   b. 5% of the whole is 750
   c. 8% of the whole quantity is 48 litres
   d. 80% of the whole time is 16 minutes