

EXERCISE 11.2

PAGE NO: 11.4

1. Express each of the following ratios as per cents:

(i) 4: 5

(ii) 1: 5

(iii) 11: 125

Solution:

(i) Given 4: 5

4: 5 can be written as $(4/5)$

$$= (4/5) \times 100$$

$$= 80\%$$

(ii) Given 1: 5

1: 5 can be written as $(1/5)$

$$= (1/5) \times 100$$

$$= 20\%$$

(iii) Given 11: 125

11: 125 can be written as $(11/125)$

$$= (11/125) \times 100$$

$$= (44/5) \%$$

2. Express each of the following percents as ratios in the simplest form:

(i) 2.5%

(ii) 0.4%

(iii) $13 \frac{3}{4} \%$

Solution:

(i) Given 2.5%

$$= (2.5/100)$$

$$= (25/1000)$$

$$= (1/40)$$

(ii) Given 0.4%

$$= (0.4/100)$$

$$= (4/1000)$$

$$= (1/250)$$

(iii) Given $13 \frac{3}{4} \%$

$$13 \frac{3}{4} = 13.75$$

$$= 13.75/100$$

$$= 1375/10000$$

$$= 11/80$$

