

EXERCISE 11.1

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1. Express each of the following percents as fractions in the simplest forms:

(i) 45%

(ii) 0.25%

(iii) 150%

(iv) $6 \frac{1}{4} \%$

Solution:

(i) Given 45%

$$= (45/100)$$

On simplifying the above fraction we get

$$= (9/20)$$

(ii) Given 0.25%

$$= (0.25/100)$$

$$= (25/10000)$$

On simplifying the above fraction we get

$$= (1/400)$$

(iii) Given 150%

$$= (150/100)$$

On simplifying the above fraction we get

$$= (3/2)$$

(iv) Given $6 \frac{1}{4} \%$

We can write $6 \frac{1}{4}$ as 6.25

$$= (6.25/100)$$

$$= (625/10000)$$

$$= (1/16)$$

2. Express each of the following fractions as a percent:

(i) $(3/4)$

(ii) $(53/100)$

(iii) $1 \frac{3}{5}$

(iv) $(7/20)$

Solution:

(i) Given $(3/4)$

$$= (3/4) \times 100$$

$$= 75\%$$

(ii) Given $(53/100)$

$$= (53/100) \times 100$$

$$= 53\%$$

(iii) Given $1 \frac{3}{5}$

Convert the given mixed fraction into improper fraction

$$1 \frac{3}{5} = (8/5)$$

$$= (8/5) \times 100$$

$$= 160\%$$

(iv) Given $(7/20)$

$$= (7/20) \times 100$$

$$= 35\%$$