

**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)  $(7/20)$**

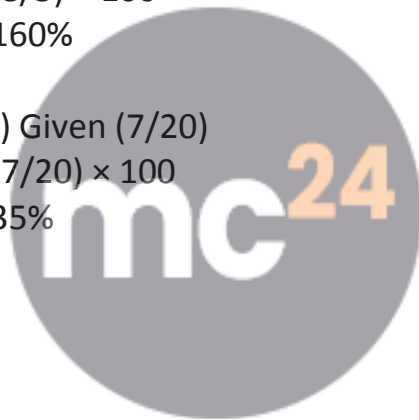
**Solution:**

(i) Given  $(\frac{3}{4})$   
 $= (\frac{3}{4}) \times 100$   
 $= 75\%$

(ii) Given  $(\frac{53}{100})$   
 $= (\frac{53}{100}) \times 100$   
 $= 53\%$

(iii) Given  $1 \frac{3}{5}$   
Convert the given mixed fraction into improper fraction  
 $1 \frac{3}{5} = (\frac{8}{5})$   
 $= (\frac{8}{5}) \times 100$   
 $= 160\%$

(iv) Given  $(\frac{7}{20})$   
 $= (\frac{7}{20}) \times 100$   
 $= 35\%$



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