

# **EXERCISE 7.6**

# 1. Express as Rupees (Rs) using decimals:

- (i) 15 paisa
- (ii) 5 paisa
- (iii) 350 paisa
- (iv) 2 rupees 60 paisa

#### **Solution:**

(i) 15 paisa
We know that 100 paisa = Rs 1
So we get 1 paisa = Rs 1/100
It can be written as
15 paisa = 15/100
We get
15 paisa = Rs 0.15

(ii) 5 paisa
We know that 100 paisa = Rs 1
So we get 1 paisa = Rs 1/100
It can be written as
5 paisa = 5/100
We get
5 paisa = Rs 0.05

(iii) 350 paisa We know that 100 paisa = Rs 1 So we get 1 paisa = Rs 1/100 It can be written as 350 paisa = 350/100 We get 350 paisa = Rs 3.50

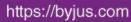
(iv) 2 rupees 60 paisa We know that 100 paisa = Rs 1 So we get 1 paisa = Rs 1/100 It can be written as 2 rupees 60 paisa = 2 + 60/100 We get 2 rupees 60 paisa = Rs 2.60

### 2. Express as metres (m) using decimals:

- (i) 15 cm
- (ii) 8 cm
- (iii) 135 cm
- (iv) 3 m 65 cm

### **Solution:**

(i) 15 cm We know that 100 cm = 1 m PAGE: 7.24





So we get 1 cm = 1/100 mIt can be written as 15 cm = 15 (1/100)We get 15 cm = 0.15 m

(ii) 8 cm We know that 100 cm = 1 mSo we get 1 cm = 1/100 mIt can be written as 8 cm = 8 (1/100)We get 8 cm = 0.08 m

(iii) 135 cm We know that 100 cm = 1 m So we get 1 cm = 1/100 m It can be written as 135 cm = 135 (1/100) We get 135 cm = 1.35 m

(iv) 3 m 65 cm We know that 100 cm = 1 mSo we get 1 cm = 1/100 mIt can be written as 3 m 65 cm = 3 + 65 (1/100)We get 3 m 65 cm = 3.65 m

## 3. Express as centimeter (cm) using decimals:

- (i) 5 mm
- (ii) 60 mm
- (iii) 175 mm
- (iv) 4 cm 5 mm

#### **Solution:**

(i) 5 mm We know that 10 mm = 1 cmSo we get 1 mm = 1/10 cmIt can be written as 5 mm = 5/10We get 5 mm = 0.5 cm

(ii) 60 mm We know that 10 mm = 1 cm So we get 1 mm = 1/10 cm It can be written as 60 mm = 60/10



We get 60 mm = 6 cm

(iii) 175 mm We know that 10 mm = 1 cmSo we get 1 mm = 1/10 cmIt can be written as 175 mm = 175/10We get 175 mm = 17.5 cm

(iv) 4 cm 5 mm We know that 10 mm = 1 cm So we get 1 mm = 1/10 cm It can be written as 4 cm 5 mm = 4 + 5/10We get 4 cm 5 mm = 4.5 cm

# 4. Express as kilometer (km) using decimals:

(i) 5 m

(ii) 55 m

(iii) 555 m

(iv) 5555 m

(v) 15 km 35 m

**Solution:** 

(i) 5 m We know that 1000 m = 1 kmSo we get 1 m = 1/1000 kmIt can be written as 5 m = 5/1000 kmWe get 5 m = 0.005 km

(ii) 55 m We know that 1000 m = 1 kmSo we get 1 m = 1/1000 kmIt can be written as 55 m = 55/1000 kmWe get 55 m = 0.055 km

(iii) 555 m We know that 1000 m = 1 kmSo we get 1 m = 1/1000 kmIt can be written as 555 m = 555/1000 kmWe get 555 m = 0.555 km



(iv) 5555 mWe know that 1000 m = 1 kmSo we get 1 m = 1/1000 kmIt can be written as 5555 m = 5555/1000 kmWe get 5555 m = 5.555 km

(v) 15 km 35 m We know that 1000 m = 1 kmSo we get 1 m = 1/1000 kmIt can be written as 15 km 35 m = 15 + 35/1000 kmWe get 15 km 35 m = 15.035 km

### 5. Express as kilogram (kg) using decimals:

(i) 8 g

(ii) 150 g

(iii) 2750 g

(iv) 5 kg 750 g

(v) 36 kg 50 g

**Solution:** 

(i) 8 g We know that 1000 g = 1 kgSo we get 1 g = 1/1000 kgIt can be written as 8 g = 8/1000We get 8 g = 0.008 kg

(ii) 150 gWe know that 1000 g = 1 kgSo we get 1 g = 1/1000 kgIt can be written as 150 g = 150/1000We get 150 g = 0.150 kg

(iii) 2750 g We know that 1000 g = 1 kg So we get 1 g = 1/1000 kg It can be written as 2750 g = 2750/1000We get 2750 g = 2.750 kg

(iv) 5 kg 750 gWe know that 1000 g = 1 kg



So we get 1 g = 1/1000 kgIt can be written as 5 kg 750 g = 5 + 750/1000We get 5 kg 750 g = 5.750 kg

(v) 36 kg 50 gWe know that 1000 g = 1 kgSo we get 1 g = 1/1000 kgIt can be written as 36 kg 50 g = 36 + 50/1000We get 36 kg 50 g = 36.050 kg

# 6. Express each of the following without using decimals:

(i) Rs 5.25

(ii) 8.354 kg

(iii) 3.5 cm

(iv) 3.05 km

(v) 7.54 m

(vi) 15.005 kg

(vii) 12.05 m

(viii) 0.2 cm

**Solution:** 

#### (i) Rs 5.25

We know that 100 paisa = 1 rupeeSo we get 1 paisa = 1/100 rupeeIt can be written as Rs 5.25 = 5 + 25/100We get Rs 5.25 = 5 + 1/4On further calculation Rs 5.25 = Rs 21/4

(ii) 8.354 kgWe know that 1000 g = 1 kgSo we get 1 g = 1/1000 kgIt can be written as 8.354 kg = 8354/1000 kg

(iii) 3.5 cm We know that 10 mm = 1 cmSo we get 1 mm = 1/10 cmIt can be written as 3.5 cm = 3 + 5/10On further calculation 3.5 cm = 3 + 1/2We get 3.5 cm = 7/2 cm



(iv) 3.05 km We know that 1000 m = 1 km So we get 1 m = 1/1000 km It can be written as 3.05 km = 3 + 5/100 Multiplying and dividing by  $10 \cdot 3.05 \text{ km} = 3 + 50/1000$  On further calculation 3.05 km = 3 + 1/20 We get 3.05 km = 61/20 km

(v) 7.54 m We know that 100 cm = 1 mSo we get 1cm = 1/100 mIt can be written as 7.54 m = 7 + 54/100On further calculation 7.54 m = 7 + 27/50We get 7.54 m = 377/50 m

(vi) 15.005 kgWe know that 1 kg = 1000 gSo we get 1 g = 1/1000 kgIt can be written as 15.005 kg = 15 + 5/1000On further calculation 15.005 kg = 15 + 1/200We get 15.005 kg = 3001/200 kg

(vii) 12.05 m We know that 1 m = 100 cm So we get 1 cm = 1/100 m It can be written as 12.05 m = 12 + 5/100On further calculation 12.05 m = 12 + 1/20We get 12.05 m = 241/20 m

(viii) 0.2 cm We know that 10 mm = 1 cmSo we get 1 mm = 1/10 cmIt can be written as 0.2 cm = 0 + 2/10On further calculation 0.2 cm = 1/5 cm