

## Exercise 7.6

### Question: 1

Express as rupees (Rs) using decimals

i) 15 paisa

ii) 5 paisa

iii) 350 paisa

iv) 2 rupees 60 paisa

### Solution:

i) We know that 100 paisa = Rs. 1

Therefore, 1 paisa = Rs.  $\frac{1}{100}$

15 paisa =  $\frac{15}{100}$

= Rs 0.15

ii) We know that 100 paisa = Rs. 1

Therefore, 1 paisa = Rs.  $\frac{1}{100}$

5 paisa =  $\frac{5}{100}$

= Rs 0.05

iii) We know that 100 paisa = Rs. 1

Therefore, 1 paisa = Rs.  $\frac{1}{100}$

350 paisa =  $\frac{350}{100}$

= Rs 3.50

iv) We know that 100 paisa = Rs. 1

Therefore, 1 paisa = Rs.  $\frac{1}{100}$

2 rupees 60 paisa =  $2 + \frac{60}{100}$

= Rs 2.60



## Question: 2

Express as metres (m) using decimals

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

## Solution:

i) We know that  $100 \text{ cm} = 1 \text{ m}$

Therefore  $1 \text{ cm} = \frac{1}{100} \text{ m}$

$$15 \text{ cm} = 15 \left( \frac{1}{100} \text{ m} \right) = \frac{15}{100} \text{ m}$$

0.15 m

ii) We know that  $100 \text{ cm} = 1 \text{ m}$

Therefore  $1 \text{ cm} = \frac{1}{100} \text{ m}$

$$8 \text{ cm} = 8 \left( \frac{1}{100} \text{ m} \right) = \frac{8}{100} \text{ m}$$

= 0.08 m

iii) We know that  $100 \text{ cm} = 1 \text{ m}$

Therefore  $1 \text{ cm} = \frac{1}{100} \text{ m}$

$$135 \text{ cm} = 135 \left( \frac{1}{100} \text{ m} \right) = \frac{135}{100} \text{ m}$$

= 1.35 m

iv) We know that  $100 \text{ cm} = 1 \text{ m}$

Therefore  $1 \text{ cm} = \frac{1}{100} \text{ m}$



$$3 \text{ m } 65\text{cm} = 3 + \frac{65}{100} \text{ m}$$

$$= 3.65 \text{ m}$$

### Question: 3

Express as centimetre (cm) using decimals

i) 5 mm

ii) 60 mm

iii) 175 mm

iv) 4 cm 5 mm

### Solution:

i) We know that 10 mm = 1cm

Therefore 1 mm =  $\frac{1}{10}$  cm

$$5 \text{ mm} = \frac{5}{10} \text{ cm}$$

$$= 0.5 \text{ cm}$$

ii) We know that 10 mm = 1cm

Therefore 1 mm =  $\frac{1}{10}$  cm

$$60 \text{ mm} = \frac{60}{10} \text{ cm}$$

$$= 6 \text{ cm}$$

iii) We know that 10 mm = 1cm

Therefore 1 mm =  $\frac{1}{10}$  cm

$$175 \text{ mm} = \frac{175}{10} \text{ cm}$$

$$= 17.5 \text{ cm}$$

iv) We know that 10 mm = 1cm

Therefore 1 mm =  $\frac{1}{10}$  cm

$$4 \text{ cm } 5 \text{ mm} = 4 + \frac{5}{10}$$



= 4.5 cm

**Question: 4**

Express as kilogram (km) using decimals

i) 5 m

ii) 55 m

iii) 555 m

iv) 5555 m

v) 15 km 35 m

**Solution:**

i) We know that  $1000 \text{ m} = 1 \text{ km}$

Therefore  $1\text{m} = 1/1000 \text{ km}$

$5 \text{ m} = 5/1000 \text{ km}$

$= 0.005 \text{ km}$

ii) We know that  $1000 \text{ m} = 1 \text{ km}$

Therefore  $1\text{m} = 1/1000 \text{ km}$

$55 \text{ m} = 55/1000 \text{ km}$

$= 0.055 \text{ km}$

iii) We know that  $1000 \text{ m} = 1 \text{ km}$

Therefore  $1\text{m} = 1/1000 \text{ km}$

$555 \text{ m} = 555/1000 \text{ km}$

$= 0.555 \text{ km}$

iv) We know that  $1000 \text{ m} = 1 \text{ km}$

Therefore  $1\text{m} = 1/1000 \text{ km}$

$5\text{m} = 5/1000 \text{ km}$

$= 5.555 \text{ km}$



v) We know that  $1000 \text{ m} = 1 \text{ km}$

Therefore  $1 \text{ m} = 1/1000 \text{ km}$

$15 \text{ km } 35 \text{ m} = 15 + 35/1000$

$= 15.035 \text{ km}$

### **Question: 5**

Express each of the following without using decimals

i) 8g

ii) 150 g

iii) 2750 g

iv) 5 kg 750 g

v) 36 kg 50 g

### **Solution:**

i) We know that  $1000 \text{ g} = 1 \text{ kg}$

Therefore  $1 \text{ g} = 1/1000 \text{ kg} = 0.001 \text{ kg}$

$8 \text{ g} = 8/1000 \text{ kg}$

$= 0.008 \text{ kg}$

ii) We know that  $1000 \text{ g} = 1 \text{ kg}$

Therefore  $1 \text{ g} = 1/1000 \text{ kg} = 0.001 \text{ kg}$

$150 \text{ g} = 150/1000 \text{ kg}$

$= 0.150 \text{ kg}$

iii) We know that  $1000 \text{ g} = 1 \text{ kg}$

Therefore  $1 \text{ g} = 1/1000 \text{ kg} = 0.001 \text{ kg}$

$2750 \text{ g} = 2750/1000 \text{ kg}$

$= 2.750 \text{ kg}$

iv) We know that  $1000 \text{ g} = 1 \text{ kg}$



Therefore  $1 \text{ g} = 1/1000 \text{ kg} = 0.001 \text{ kg}$

$5 \text{ kg } 750 \text{ g} = 5 + 750/1000$

$= 5.750 \text{ kg}$

v) We know that  $1000 \text{ g} = 1 \text{ kg}$

Therefore  $1 \text{ g} = 1/1000 \text{ kg} = 0.001 \text{ kg}$

$36 \text{ kg } 50 \text{ g} = 36 + 50/1000$

$= 36.050 \text{ kg}$

### **Question: 6**

Express each of the following without using decimals

i) Rs.5.25

ii) 8.354 kg

iii) 3.05 km

iv) 7.54 m

v) 15.005 kg

vi) 12.05 m

### **Solution:**

i) We know  $100 \text{ paisa} = 1 \text{ rupee}$

So,  $1 \text{ paisa} = 1/100 \text{ rupee}$

Therefore,  $\text{Rs } 5.25 = 5 + 0.25$

$= 5 + 25/100 = \text{Rs } 5 \text{ and } 25 \text{ paisa}$

ii) We know that  $1000 \text{ g} = 1 \text{ kg}$

So  $1 \text{ g} = 1/1000 \text{ kg}$

Therefore,  $8.354 = 8 + 0.354 = 8 + 354/1000 = 8 \text{ kg } 354 \text{ g}$

1. 3.5 cm

We know that  $10 \text{ mm} = 1 \text{ cm}$



So, 1 mm = 1/10 cm

Therefore 3.5 = 3 + 0.5

= 3 + 5/10 = 3 cm 5 mm

iii) We know that 1000 m = 1 km

Therefore 3.05 = 3 + 0.05

$$= 3 + \frac{5}{100}$$

$$= 3 + \frac{50}{1000} \text{ km}$$

= 3 km 50 m

iv) We know that 100 cm = 1m

Therefore 7.54 = 7 + 0.54

$$= 7 + \frac{54}{100}$$

= 7m 54 cm

v) We know that 1 kg = 1000 g

Therefore, 15.005 = 15 + 0.005

$$= 15 + \frac{5}{1000}$$

= 15 kg 5 g

vi) We know that 1m = 100 cm

Therefore 12.05 = 12 + 0.05

$$= 12 + \frac{5}{100}$$

= 12 m 5 cm

