

RD SHARMA

Solutions

Class 6 Maths

Chapter 7

Ex 7.6

Question 1**Express as rupees (Rs) using decimals**

i) 15 paisa

We know that 100 paisa = Rs. 1

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

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

= Rs 0.15

ii) 5 paisa

We know that 100 paisa = Rs. 1

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

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

= Rs 0.05

iii) 350

We know that 100 paisa = Rs. 1

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

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

= Rs 3.50

iv) 2 rupees 60 paisa

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

We know that 100 cm = 1 m

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

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

= 0.15 m

ii) 8 cm

We know that 100 cm = 1 m

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

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

= 0.08 m

iii) 135 cm

We know that 100 cm = 1 m

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

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

= 1.35 m

iv) 3 m 65 cm

We know that 100 cm = 1 m

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

We know that 10 mm = 1 cm

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

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

$$= 0.5\text{ cm}$$

ii) 60 mm

We know that 10 mm = 1 cm

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

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

$$= 6\text{ cm}$$

iii) 175 mm

We know that 10 mm = 1 cm

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

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

$$= 17.5\text{ cm}$$

iv) 4 cm 5 mm

We know that 10 mm = 1 cm

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

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

$$= 4.5\text{ cm}$$

Question 4

Express as kilogram (km) using decimals

i) 5 m

We know that 1000 m = 1 km

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

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

$$= 0.005\text{ km}$$

ii) 55 m

We know that 1000 m = 1 km

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

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

$$= 0.055\text{ km}$$

iii) 555 m

We know that 1000 m = 1 km

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

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

$$= 0.555\text{ km}$$

iv) 5555 m

We know that 1000 m = 1 km

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

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

$$= 5.555\text{ km}$$

v) 15 km 35 m

We know that 1000m = 1 km

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

$$15\text{km}35\text{m} = 15 + 35 \times \frac{1}{1000}$$

$$= 15.035\text{ km}$$

Question 5

Express each of the following without using decimals

i) 8g

We know that 1000g = 1kg

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

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

$$= 0.008\text{ kg}$$

ii) 150 g

We know that 1000g = 1kg

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

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

$$= 0.150\text{ kg}$$

iii) 2750 g

We know that 1000g = 1kg

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

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

$$= 2.750\text{ kg}$$

iv) 5 kg 750 g

We know that 1000g = 1kg

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

$$5\text{ kg } 750\text{g} = 5 + 750 \times \frac{1}{1000}$$

$$= 5.750\text{ kg}$$

v) 36 kg 50 g

We know that 1000g = 1kg

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

$$36\text{kg } 50\text{g} = 36 + 50 \times \frac{1}{1000}$$

$$= 36.050\text{ kg}$$

Question 6

Express each of the following without using decimals

i) Rs. 5.25

We know 100 paisa = 1 rupee

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

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

$$= 5 + 25 \times \frac{1}{100} = \text{Rs}5 \text{ and } 25\text{ paisa}$$

ii) 8.354 kg

We know that $100\text{g} = 1\text{kg}$

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

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

1. 3.5 cm

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

$$\text{So, } 1\text{ mm} = \frac{1}{10}\text{cm}$$

Therefore $3.5 = 3 + 0.5$

$$= 3 + 5/10 = 3\text{cm } 5\text{ mm}$$

iii) 3.05 km

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

Therefore $3.05 = 3 + 0.05$

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

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

$$= 3\text{km } 50\text{ m}$$

iv) 7.54 m

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

Therefore $7.54 = 7 + 0.54$

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

$$= 7\text{m } 54\text{ cm}$$

v) 15.005 kg

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

Therefore, $15.005 = 15 + 0.005$

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

$$= 15\text{kg } 5\text{ g}$$

vi) 12.05 m

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

Therefore $12.05 = 12 + 0.05$

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

$$= 12\text{ m } 5\text{ cm}$$