

## EXERCISE 8.4

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1. Express as rupees using decimals.

(a) 5 paise

(b) 75 paise

(c) 20 paise

(d) 50 rupees 90 paise

(e) 725 paise

**Solutions:**

We know that there are 100 paise in 1 rupee.

(a) 5 paise =  $5 / 100$  rupees

= Rupees 0.05

(b) 75 paise =  $75 / 100$  rupees

= Rupees 0.75

(c) 20 paise =  $20 / 100$  rupees

= Rupees 0.20

(d) 50 rupees 90 paise =  $[(50 + 90 / 100)]$  rupees

= Rupees 50.90

(e) 725 paise =  $725 / 100$  rupees

= Rupees 7.25

2. Express as metres using decimals.

(a) 15 cm

(b) 6 cm

(c) 2 m 45 cm

(d) 9 m 7 cm

(e) 419 cm

**Solutions:**

We know that there are 100 cm in 1 metre

(a)  $15 \text{ cm} = 15 / 100 \text{ m}$

$= 0.15 \text{ m}$

(b)  $6 \text{ cm} = 6 / 100 \text{ m}$

$= 0.06 \text{ m}$

(c)  $2 \text{ m } 45 \text{ cm} = [(2 + 45 / 100)] \text{ m}$

$= 2.45 \text{ m}$

(d)  $9 \text{ m } 7 \text{ cm} = [(9 + 7 / 100)] \text{ m}$

$= 9.07 \text{ m}$

(e)  $419 \text{ cm} = 419 / 100 \text{ m}$

$= 4.19 \text{ m}$

### **3. Express as cm using decimals**

(a) **5 mm**

(b) **60 mm**

(c) **164 mm**

(d) **9 cm 8 mm**

(e) **93 mm**

**Solutions:**

We know that there are 10 mm in 1 cm.

(a)  $5 \text{ mm} = 5 / 10 \text{ cm}$

$= 0.5 \text{ cm}$

(b)  $60 \text{ mm} = 60 / 10 \text{ cm}$

$= 6.0 \text{ cm}$

(c)  $164 \text{ mm} = 164 / 10 \text{ cm}$

$= 16.4 \text{ cm}$

(d)  $9 \text{ cm } 8 \text{ mm} = [(9 + 8 / 10)] \text{ cm}$

$= 9.8 \text{ cm}$

(e)  $93 \text{ mm} = 93 / 10 \text{ cm}$

$= 9.3 \text{ cm}$

**4. Express as km using decimals.**

(a) **8 m**

(b) **88 m**

(c) **8888 m**

(d) **70 km 5 m**

**Solutions:**

We know that there are 1000 metres in 1 km.

(a)  $8 \text{ m} = 8 / 1000 \text{ km}$

$= 0.008 \text{ km}$

(b)  $88 \text{ m} = 88 / 1000 \text{ km}$

$= 0.088 \text{ km}$

(c)  $8888 \text{ m} = 8888 / 1000 \text{ km}$

$= 8.888 \text{ km}$

(d)  $70 \text{ km } 5 \text{ m} = [(70 + 5 / 1000)] \text{ km}$

$= 70.005 \text{ km}$

**5. Express as kg using decimals.**

(a) **2 g**

(b) **100 g**

(c) **3750 g**

(d) **5 kg 8 g**

(e) **26 kg 50 g**

**Solutions:**

We know that there are 1000 grams in 1 kg.

(a)  $2 \text{ g} = 2 / 1000 \text{ kg}$

$= 0.002 \text{ kg}$

(b)  $100 \text{ g} = 100 / 1000 \text{ kg}$

$= 0.1 \text{ kg}$

(c)  $3750 \text{ g} = 3750 / 1000 \text{ kg}$

$= 3.750 \text{ kg}$

(d)  $5 \text{ kg } 8 \text{ g} = [(5 + 8 / 1000)] \text{ kg}$

$= 5.008 \text{ kg}$

(e)  $26 \text{ kg } 50 \text{ g} = [(26 + 50 / 1000)] \text{ kg}$

$= 26.050 \text{ kg}$

