

# Ch-12 Measurement

## Exercise - 12 (a)

1 Convert into centimeters.

a. ~~105m = 105m 500cm~~

b. ~~4m~~

a.  $105\text{m} = 105\text{m} = 105 \times 100\text{cm} = 10500\text{cm}$

b.  $4\text{m } 15\text{cm} = 4\text{m } 15\text{cm} = 4 \times 100\text{cm} + 15\text{cm}$

$\text{cm} = 400 + 15\text{cm} = 415\text{cm}$

c.  $212\text{m} = 212\text{m} = 2 \times 100\text{cm} + 12\text{cm}$

$= 200 + 12\text{cm} = 212\text{cm}$

d.  $18\text{m } 85\text{cm} = 18\text{m } 85\text{cm} = 18 \times$

$100\text{cm} + 85\text{cm} = 1800 + 85 = 1885\text{cm}$

2. Convert into metres and centimeters.

a.  $384 \text{ cm} = 384 \text{ cm} = 300 \text{ cm} + 84 \text{ cm}$   
 $3 \text{ m } 84 \text{ cm}$

b.  $12,715 \text{ cm} = 12,715 \text{ cm} = 12,700$   
 $\text{cm} + 15 \text{ cm} = 12 \text{ m } 715 \text{ cm}$

c.  $24,367 \text{ cm} = 24,300 \text{ cm} + 67 \text{ cm} = 243 \text{ m}$   
 $67 \text{ cm}$

d.  $5,525 \text{ cm} = 5,000 \text{ cm} + 525 \text{ cm} = 5 \text{ m } 525$

3. Convert into metres.

a.  $35 \text{ km} = 35 \times 1000 = 35,000 \text{ m}$

b.  $2 \text{ km } 375 \text{ m} = 2 \times 1000 + 375$   
 $2,375 \text{ m}$

$$c, 9 \text{ km } 950 = 9 \text{ km } 950 = 9 \times 1000 \text{ m}$$

$$950 \text{ m} = 9, 950 \text{ m}$$

$$d, 78 \text{ km } 044 \text{ m} = 78 \times 1000 \text{ m} + 044 \text{ m}$$

$$78, 000 \text{ m} + 044 \text{ m} = 78, 044 \text{ m}$$

4. Convert into kilometres and metres.

$$a, 1, 925 \text{ m} = 1, 925 \text{ m} = 1, 000 \text{ m} + 925 \text{ m}$$

$$1 \text{ km } 925 \text{ m}$$

$$b, 14, 725 \text{ m} = 14, 725 \text{ m} = 14 \times 1000$$

$$725 \text{ m} = 14 \text{ km } 725 \text{ m}$$

$$c, 3, 125 \text{ m} = 3, 125 \text{ m} = 3, 000 \text{ m} +$$

$$125 \text{ m} = 3 \text{ km } 125 \text{ m}$$

$$d. 25,528 \text{ m} = 25,528 = 25,000 \text{ m}$$

$$528 = 25 \text{ km } 528 \text{ m}$$

1. Convert into centimetres.

$$e. 48 \text{ m } 57 \text{ cm} = 48 \text{ m } 57 \text{ cm} = ~~4857~~$$

$$48 \times 100 \text{ cm} + 57 \text{ cm} = 4,857 \text{ cm}$$

$$f. 94 \text{ m } 09 \text{ cm} = 94 \times 100 \text{ cm} + 09 \text{ cm} =$$

$$9,409 \text{ cm}$$

$$g. 714 \text{ cm } 10 \text{ cm} = 714 \text{ cm } 10 \text{ cm} =$$

$$700 + 10 + 4 + 10 \text{ cm} = 71,410 \text{ cm}$$

$$h. 89 \text{ m } 29 \text{ cm} = 800 + 900 + 29 \text{ cm}$$

$$= 89,029 \text{ cm}$$

2. Convert metres and centimetres.

$$e, 796 \text{ cm} = 700 \text{ cm} + 90 + 6 \text{ cm} = 796 \text{ cm}$$

$$f, 62,615 \text{ cm} = 62600 \text{ cm} + 15 \text{ cm} = 62615 \text{ cm}$$

15 cm

$$g, 6,250 \text{ cm} = 6000 \text{ cm} + 250 \text{ cm} = 6250 \text{ cm}$$

$$h, 92,995 \text{ cm} = 92,000 \text{ cm} + 995 \text{ cm} = 92995 \text{ cm}$$

95 cm

3 Convert into metres,

$$e, 24 \text{ km } 257 \text{ m} = 24 \times 1000 \text{ m} +$$

$$257 \text{ m} = 24257 \text{ m}$$

$$f, 91 \text{ km } 225 \text{ m} = 91 \times 1000 \text{ m} + 225 \text{ m} = 91225 \text{ m}$$

$$g, 21 \text{ km } 264 \text{ m} = 21 \times 1000 \text{ m} + 264 \text{ m} =$$

$$21264 \text{ m}$$

$$h. 99 \text{ km of } 5 \text{ m} = 99 \times 1000 \text{ m} + 0.5 \text{ m} \\ = 99075 \text{ m}$$

4. ~~Convert~~ Convert into kilometres and metres

$$e. 33,409 \text{ m} = 33,000 + 409 = 33 \text{ km} \\ 409 \text{ m}$$

$$f. 92,480 \text{ m} = 92,000 + 480 = 92 \text{ km} \\ 480 \text{ m}$$

$$g. 6,008 \text{ m} = 6000 + 008 = ~~6008 \text{ m}~~ \\ 6 \text{ km } 8 \text{ m}$$

$$h. 91,025 \text{ m} = 91 \times 1000 + 025 \text{ m} = \\ 91 \text{ km } 25 \text{ m}$$