

TENDER HEART HIGH SCHOOL, SEC-33B, CHD.

Class: III

Topic: Measurement

Subject: Mathematics

Date: 21.10.2024

Good Morning students

This is the notebook work of ch-Measurement and it is being submitted to you on 21.10.2024.

ch-7 Measurement

Standard units for measuring length

The length of an object is a measure of how long or tall it is. Some standard units commonly used for measuring length and height are metre (m) and centimetre (cm).

Some standard units commonly used for measuring distance are metre (m) and kilometre (km).

Exercise - 7.2 (pg no.-119)

A. Convert the following to centimetres.

$$\begin{aligned} 1. \quad 3\text{m} &= 3 \times 100\text{cm} \\ &= 300\text{cm} \end{aligned}$$

$$\begin{aligned} 2. \quad 2\text{m} 7\text{cm} &= 2 \times 100\text{cm} + 7\text{cm} \\ &= 200\text{cm} + 7\text{cm} \\ &= 207\text{cm}. \end{aligned}$$

$$3. \quad 8 \text{ m} = 8 \times 100 \text{ cm} \\ = 800 \text{ cm}$$

$$4. \quad 10 \text{ m} = 10 \times 100 \text{ cm} \\ = 1000 \text{ cm}$$

$$5. \quad 12 \text{ m} = 12 \times 100 \text{ cm} \\ = 1200 \text{ cm}$$

$$6. \quad 22 \text{ m} = 22 \times 100 \text{ cm} \\ = 2200 \text{ cm}$$

$$7. \quad 1 \text{ m } 10 \text{ cm} = 1 \times 100 \text{ cm} + 10 \text{ cm} \\ = 100 \text{ cm} + 10 \text{ cm} \\ = 110 \text{ cm}$$

$$8. \quad 3 \text{ m } 9 \text{ cm} = 3 \times 100 \text{ cm} + 9 \text{ cm} \\ = 309 \text{ cm}$$

$$9. \quad 9 \text{ m } 80 \text{ cm} = 9 \times 100 \text{ cm} + 80 \text{ cm} \\ = 900 \text{ cm} + 80 \text{ cm} \\ = 980 \text{ cm}$$

$$10. \quad 15 \text{ m } 5 \text{ cm} = 15 \times 100 \text{ cm} + 5 \text{ cm} \\ = 1505 \text{ cm}$$

• When converting cm to m, the last two digits represent cm while the remaining digits represent m.

$$800 \text{ cm} = 8 \text{ m}$$

m 8 00 cm

B. Convert the following to metres and centimetres.

$$1. \quad 1400 \text{ cm} = 14 \text{ m}$$

$$2. \quad 1758 \text{ cm} = 17 \text{ m } 58 \text{ cm}$$

$$3. \quad 400 \text{ cm} = 4 \text{ m}$$

$$4. \quad 600 \text{ cm} = 6 \text{ m}$$

$$5. \quad 151 \text{ cm} = 1 \text{ m } 51 \text{ cm}$$

$$6. \quad 326 \text{ cm} = 3 \text{ m } 26 \text{ cm}$$

$$7. \quad 578 \text{ cm} = 5 \text{ m } 78 \text{ cm}$$

$$8. \quad 803 \text{ cm} = 8 \text{ m } 03 \text{ cm}$$

$$9. \quad 919 \text{ cm} = 9 \text{ m } 19 \text{ cm}$$

$$10. \quad 2405 \text{ cm} = 24 \text{ m } 05 \text{ cm}$$

Add or subtract

$$\begin{array}{r}
 1. \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 9 \quad 48 \\ + 2 \quad 90 \\ \hline 10 \quad 38 \end{array} \\
 \text{Ans } 10\text{m } 38\text{cm}
 \end{array}$$

$$\begin{array}{r}
 2. \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 6 \quad 50 \\ + 1 \quad 25 \\ \hline 7 \quad 75 \end{array} \\
 \text{Ans } 7\text{m } 75\text{cm}
 \end{array}$$

$$\begin{array}{r}
 3. \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 4 \quad 60 \\ + 2 \quad 20 \\ \hline 6 \quad 80 \end{array} \\
 \text{Ans } 6\text{m } 80\text{cm}
 \end{array}$$

$$\begin{array}{r}
 4. \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 5 \quad 10 \\ + 3 \quad 10 \\ \hline 8 \quad 20 \end{array} \\
 \text{Ans } 8\text{m } 20\text{cm}
 \end{array}$$

$$\begin{array}{r}
 5. \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 9 \quad 60 \\ - 5 \quad 40 \\ \hline 4 \quad 20 \end{array} \\
 \text{Ans } 4\text{m } 20\text{cm}
 \end{array}$$

$$\begin{array}{r}
 6. \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 7 \quad 50 \\ - 4 \quad 10 \\ \hline 3 \quad 40 \end{array} \\
 \text{Ans } 3\text{m } 40\text{cm}
 \end{array}$$

$$\begin{array}{r}
 7. \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 9 \quad 45 \\ - 4 \quad 20 \\ \hline 5 \quad 25 \end{array} \\
 \text{Ans } 5\text{m } 25\text{cm}
 \end{array}$$

$$\begin{array}{r}
 8. \quad \begin{array}{r} \text{m} \quad \text{cm} \\ 8 \quad 40 \\ - 6 \quad 30 \\ \hline 2 \quad 10 \end{array} \\
 \text{Ans } 2\text{m } 10\text{cm}
 \end{array}$$

Ex - 7.4 (pg-121)Story sums

1. Our sports Teacher bought 18m 60cm of red ribbon for Tagore House and 21m 30cm of blue ribbon for Raman House. What is the total length of the ribbons she bought?

Length of red ribbon = 18m 60cm

Length of blue ribbon = 21m 30cm

Total length of ribbon bought = 18m 60cm + 21m 30cm

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 18 \quad 60 \\ + 21 \quad 30 \\ \hline 39 \quad 90 \end{array}$$

Ans 39m 90cm

2. One pipe is 5m 75cm long and another pipe is 4m 25cm long. What is the total length of the two pipes?

Sol

Length of first pipe = 5m 75cm

Length of second pipe = 4m 25cm

Total length of the two pipes = 5m 75cm + 4m 25cm

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 5 \quad 75 \\ + 4 \quad 25 \\ \hline 10 \quad 00 \end{array}$$

Ans 10m 00cm

3. The height of Sun Apartment is 29m 78cm. The height of Star Apartment is 20m 15cm. What is the difference between the heights of the two buildings?

Sol

Height of Sun Apartment = 29m 78cm

Height of Star Apartment = 20m 15cm

Difference = 29m 78cm - 20m 15cm

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 29 \quad 78 \\ - 20 \quad 15 \\ \hline 09 \quad 63 \end{array}$$

Ans 9m 63cm

4. Grand's saree is 455 cm long. What is its length in m and cm?

Sol

Grandma's saree is 4m 55cm long.

5. Yusuf, Amit and John jog everyday. Yusuf jogs 850m, Amit jogs 1km and John jogs 750m. Who jogs the longest distance?

Sol

Distance Yusuf jogs = 850m

Distance Amit jogs = 1km = 1000m

Distance John jogs = 750m

Amit jogs the longest distance.

Home assignment: Complete the above work in your notebook.