

SESSION : 3
CLASS : IV
SUBJECT : MATHEMATICS
CHAPTER NUMBER : 12
CHAPTER NAME : MEASUREMENT
SUBTOPIC : ADDITION AND SUBTRACTION OF LENGTHS, EX-12 B & C

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE

- Enable the students to understand how to add and subtract the lengths.

MEASUREMENT

ADDITION OF LENGTHS

EXAMPLE – 1 Add 15 m 5 cm and 24 m 95 cm.

m	cm
15	5
+ 24	95
40	00

Method

Step 1 :

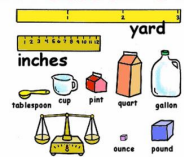
Add the centimetres first. $5 + 95 = 100 \text{ cm} = 1\text{m}$.
Write 00 under the centimetres' column and carry 1 to the metres' column.

Step 2 :

Add the metres. $15 + 24 + 1(\text{carry over}) = 40$.
Write 40 under the metres' column.

Ans : 40 m 00 cm

Measurement

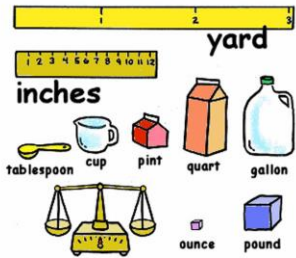


MEASUREMENT

ADDITION OF LENGTHS

we can add **metres** and **centimetres** like ordinary numbers but all **centimetres** must be written as **two digits** numbers like paise. For example, **6cm** should be written as **06cm**, and **8cm** as **08cm**, etc.

Measurement



ADDITION OF LENGTHS

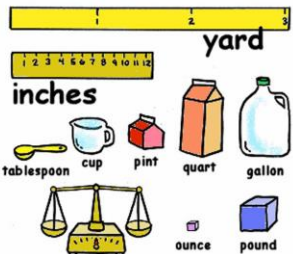
EXERCISE – 12(B)

A. Add the following.

1	m	cm
	1 1	1
	8	7 5
	1 2	6 5
+	4	1 5
	2 5	5 5

Ans. **25 m 55 cm**

Measurement



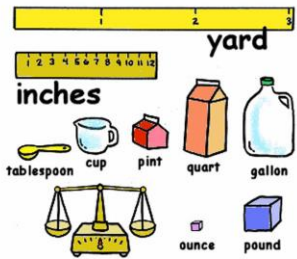
ADDITION OF LENGTHS

EXERCISE – 12(B)

A. Add the following.

2	m	c m
	1 2	1
	1 5	5 5
	1 8	6 0
+	2 4	9 5
	5 9	1 0

Measurement



Ans. **59 m 10 cm**

ADDITION OF LENGTHS

EXERCISE – 12(B)

B. Word problems.

1. Suman cycled 6km 500m in one hour and 7km 750m in the next hour. How much distance did she cycle altogether?

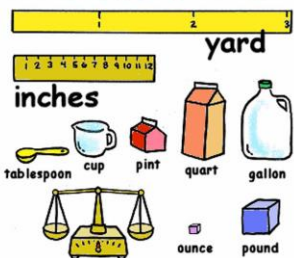
Suman cycled total in one hour = 6km 500m

Suman cycled total in next hour = 7km 750m

Suman cycled total =

	k m	m
	1 1	
	6	5 0 0
+	7	7 5 0
	1 4	2 5 0

Measurement



Hence, She cycled total distance **14 km 250 m** altogether.

MEASUREMENT

SUBTRACTION OF LENGTHS

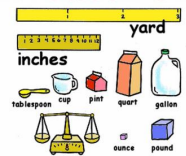
EXAMPLE – 1 Subtract 9 m 57 cm from 15 m 26 cm.

m	cm
15	26
- 9	57
<hr/>	
5 m	69cm

Or

m	cm
14	126
- 9	57
<hr/>	
5 m	69cm

Measurement



MEASUREMENT

SUBTRACTION OF LENGTHS

EXAMPLE – 1 Subtract 9 m 57 cm from 15 m 26 cm.

Method

Step 1 :

Subtract the centimetres.

As $57 > 26$, we cannot subtract 57 from 26. so, borrow 1m from 15m. $1\text{m} = 100\text{cm}$.

$100\text{cm} + 26\text{cm} = 126\text{cm}$. Subtract 57cm from 126cm.

$126 - 57 = 69\text{cm}$. Write 69 in the centimetres' column.

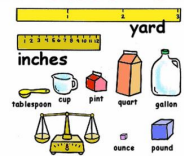
Step 2 :

Subtract the metres.

Subtract 9m from 14m = $14\text{m} - 9\text{m} = 5\text{m}$.

Write 5 in the metres' column. **Ans : 5m 69cm**

Measurement

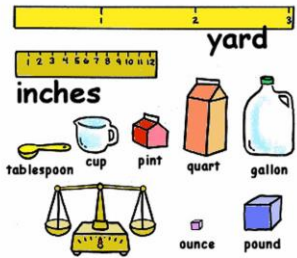


MEASUREMENT

SUBTRACTION OF LENGTHS

Centimetres should be written as two digit numbers.

Measurement



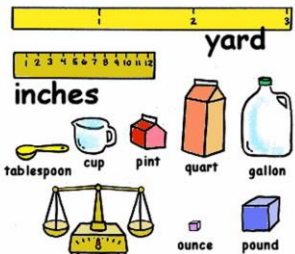
SUBTRACTION OF LENGTHS

EXERCISE – 12(C)

A. Subtract the following.

$$\begin{array}{r} \text{1} \quad \text{m} \quad \text{c m} \\ 5 \ 12 \\ 8 \ \cancel{6} \ \cancel{2} \\ - \quad 4 \quad 4 \ 8 \\ \hline 4 \quad 1 \ 4 \end{array}$$

Measurement



Ans.

4 m 14 cm

ADDITION OF LENGTHS

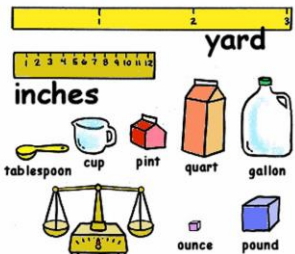
EXERCISE – 12(C)

A. Subtract the following.

2	m	c m
		3 18
	17	48
-	12	29
	5	19

Ans. → 5 m 19 cm

Measurement



SUBTRACTION OF LENGTHS

EXERCISE – 12(C)

B. Word problems.

1. Sudhir is 163cm tall and Rupam is 1m 81cm tall. What is the difference between their heights?

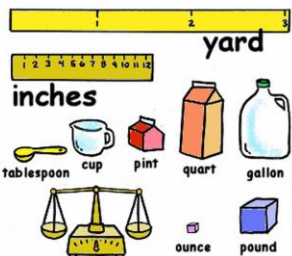
Sudhir heights = 163 cm or 1m 63cm

Rupam heights = 1m 81cm

The difference between their heights =

	m	cm
		7 11
	1	8 1
-	1	6 3
	0	1 8

Measurement



Hence, The difference between their heights is **18**
cm.

SUBTRACTION OF LENGTHS

EXERCISE – 12(C)

B. Word problems.

2. A pipe of length 5m is cut into two pieces. Of the length of one piece is 2m 65cm, what will be the length of the other piece?

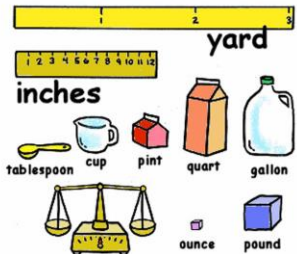
Total length of the pipe = 5m 00cm.

The length of one pipe = 2m 65cm.

The length of another pipe =

	m	c m
	4	9 10
	5	0 0
-	2	6 5
	2	3 5

Measurement



Hence, 2 m 35 cm is the length of other pipe.

HOME ASSIGNMENT:

- **Complete Exercise – 12 B & C in your note book.**

LEARNING OUTCOME:

Students are able to understand how to add and subtract the lengths.

THANKING YOU
ODM EDUCATIONAL GROUP