



Provincial Department Of Education – Sabaragamuwa
WEEKLY SCHOOL

Subject : Mathematics

Grade 7

Week : 13th of 2nd Term

Unit 16 – Length (1)



1 centimetre = 10 millimetres
1 metre = 100 centimetres
1 kilometre = 1000 metres

1 cm = 10 mm
1 m = 100 cm
1 km = 1000 m

➤ Addition of length measurements

cm	mm
5	5
+ 2	8
<u>8</u>	<u>3</u>

Let us add the quantities in the millimetres column.

$$5 \text{ mm} + 8 \text{ mm} = 13 \text{ mm}$$

$$13 \text{ mm} = 1 \text{ cm} + 3 \text{ mm}$$

Let us write 3 mm in the millimetres column and carry the 1 cm to the centimetres column.

$$\text{Then, } 1 \text{ cm} + 5 \text{ cm} + 2 \text{ cm} = 8 \text{ cm}$$

Let us write 8 cm in the centimetres column.

- Let us simplify $5 \text{ m } 65 \text{ cm} + 15 \text{ m } 70 \text{ cm}$.

m	cm
5	65
+ 15	70
<u>21</u>	<u>35</u>

Let us add the quantities in the centimetres column.

$$65 \text{ cm} + 70 \text{ cm} = 135 \text{ cm}$$

$$135 \text{ cm} = 1 \text{ m} + 35 \text{ cm}$$

Let us write the 35 cm in the centimetres column and carry the 1 m to the metres column.

$$\text{Then, } 1 \text{ m} + 5 \text{ m} + 15 \text{ m} = 21 \text{ m}$$

Let us write 21 m in the metres column.

- Let us simplify $3 \text{ km } 30 \text{ m} + 980 \text{ m}$.

km	m
3	30
+ _____	980
<u>4</u>	<u>10</u>

Let us add the quantities in the metres column.

$$30 \text{ m} + 980 \text{ m} = 1010 \text{ m}$$

$$1010 \text{ m} = 1 \text{ km} + 10 \text{ m}$$

Let us write the 10 m in the metres column and carry the 1 km to the kilometres column.

$$3 \text{ km} + 1 \text{ km} = 4 \text{ km}$$

Let us write the 4 km in the kilometres column.

➤ **Subtraction of lengths**

Example 1

A piece of length 7 cm 5 mm is cut from a ribbon of length 32 cm 3 mm. What is the length of the remaining piece of ribbon?



Let us simplify $32\text{cm } 3\text{mm} - 7\text{ cm } 5\text{ mm}$.

cm	mm
32	3
- 7	5
24	8
24	8

3 is less than 5. Let us carry over 1 cm from the 32 cm in the centimetres column to the millimetres column. Then there will be 31 cm remaining in the centimetres column.

$$10\text{ mm} + 3\text{ mm} = 13\text{ mm}$$

$$13\text{ mm} - 5\text{ mm} = 8\text{ mm}$$

Let us write 8 mm in the millimetres column.

From the remaining 31 cm in the centimetres column, let us subtract 7 cm.

$$31\text{ cm} - 7\text{ cm} = 24\text{ cm}$$

Example 2

Simplify $6\text{ km } 50\text{ m} - 2\text{ km } 700\text{ m}$.

km	m
6	50
- 2	700
3	350
3	350

50 is less than 700. Let us carry over 1 km from the 6 km in the kilometres column to the metres column.

$$1000\text{ m} + 50\text{ m} = 1050\text{ m}$$

$$1050\text{ m} - 700\text{ m} = 350\text{ m}$$

Let us write 350 m in the metres column. From the remaining 5 km, in the kilometres column, let us subtract 2 km.

$$5\text{ km} - 2\text{ km} = 3\text{ km}$$

Let us write 3 km in the kilometres column.

➤ **Do all the exercises in your text book 16.1 and 16.2**