

# THE METRE AND KILOMETRE

Elementary Mathematics Measurement The Metric System The Metre and Kilometre

When the seamstress was making your uniform she had to measure your length, waist, chest, and hips; she also had to measure the cloth, elastic bands, and zips. She measures using a metre ruler.



There are many professions that need to measure things in such a way: such as builders, surveyors, carpenters, architects, engineers, etc. Some work with measurement that take long distances – cartographers measure long distances such as roads, and distances between towns, countries, etc. They would most likely use the kilometre (km).

Thus you should remember the following:

$$100 \text{ cm} = 1 \text{ metre (m)}$$

$$1000 \text{ m} = 1 \text{ kilometre (km)}$$

## EXERCISES

### 1. QUESTION

What unit of length would be most suitable to measure: (centimetres, metres, kilometres)

the length of your thumb — \_\_\_\_\_

the length of a car - \_\_\_\_\_

the height of a house - \_\_\_\_\_

The distance between Grenada and Barbados - \_\_\_\_\_

### 2. QUESTION

Express the following metres as centimetres.

1)  $2\frac{1}{4} \text{ m} = (100) + (100) + (25) = \underline{\hspace{2cm}} \text{ cm}$

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2)  $4\frac{3}{4}$  m = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ cm

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3)  $7\frac{1}{2}$  m = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_ cm

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4)  $10\frac{1}{4}$  m = \_\_\_\_\_ cm

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### 3. QUESTION

Express each in centimetres.

Follow the example below.

2 m 15 cm = **200 cm + 15 cm = 215cm**

1) 7 m 45 cm = 700 cm + 45 cm = \_\_\_\_\_ cm

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2) 9 m 75 cm = \_\_\_\_\_ cm + \_\_\_\_\_ cm = \_\_\_\_\_ cm

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3) 12 m 80 cm = \_\_\_\_\_ cm + \_\_\_\_\_ cm = \_\_\_\_\_ cm

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4) 16 m 24 cm = \_\_\_\_\_ cm + \_\_\_\_\_ cm = \_\_\_\_\_ cm

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### 4. QUESTION

Express each of the following in metres and centimetres.

a) 140 cm = \_\_\_\_\_ m \_\_\_\_\_ cm

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b) 1855 cm = \_\_\_\_\_ m \_\_\_\_\_ cm

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c) 325 cm = \_\_\_\_\_ m \_\_\_\_\_ cm

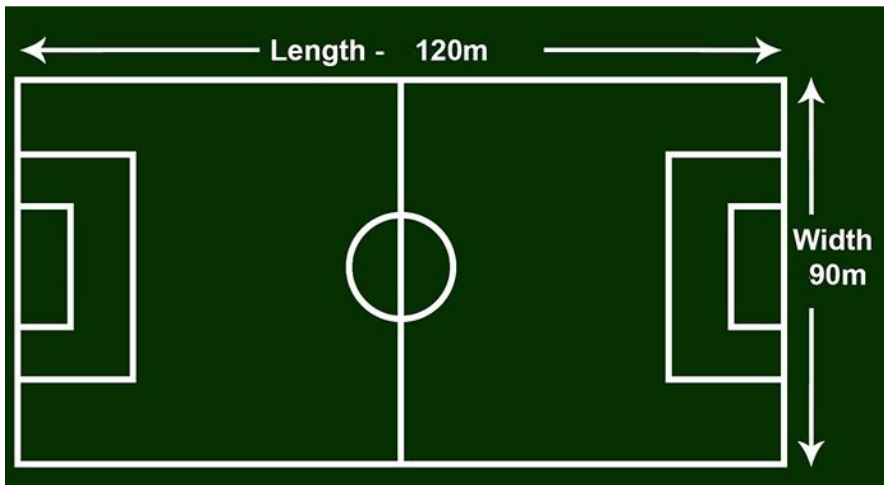
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d) 687 cm = \_\_\_\_\_ m \_\_\_\_\_ cm

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### 5. QUESTION

Below is an example of a soccer field.



What is the total distance around this field?

Answer= \_\_\_\_\_m