

CH4: LONG AND SHORT

Case Study based and Comprehension
based question

Date:15/7/21

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CH4: LONG AND SHORT (WS49) [14/7/21]

- 1) Standard unit of length is (m / dam).
- 2) The distance from the tip of the thumb to the tip of the little finger on your outstretched hand is(Handspan / footspan).
- 3) The length of the arm from the elbow to the tip of the middle finger is (Cubit/ Palm)
- 4) Give two examples of ancient instruments to measure length. Footspan, Handspan, Pace, Cubit, Armspan
- 5) Give two examples of modern instruments to measure length. Scale, Measuring tape, Screw Gauge, Vernier Calliper
- 6) Give examples of two occupations where workers use measurement of length in their work. Carpenter, Tailors, Architects
- 7) Give one example in your daily life where measurement is needed. Eg: Cooking, Shopping, Studying

8) Conversion:

a) Convert 67cm4mm into mm

Soln: We know, $1\text{cm} = 10\text{mm}$

Therefore, $67\text{cm}4\text{mm} = 67\text{cm} + 4\text{mm}$

$$= 67 \times 10\text{mm} + 4\text{mm}$$

$$= 670\text{mm} + 4\text{mm}$$

$$= 674\text{mm}$$

b) Convert 90km567m into m

Soln: We know, $1\text{km} = 1000\text{m}$

Therefore, $90\text{km}567\text{m} = 90\text{km} + 567\text{m}$

$$= 90 \times 1000\text{m} + 567\text{m}$$

$$= 90567\text{m}$$

c) Convert 88 m into cm

Soln: We know, $1\text{m} = 100\text{cm}$

Therefore, $88\text{m} = 88 \times 100\text{cm}$

$$= 8800\text{cm}$$

Hots : [13/7/21]

Q.1 Seema is going to the tailor a new dress made for herself. What could the length of cloth needed to stitch a dress?

- a) 3 mm b) 3 km **c) 3 m .**

Q. 2 Ishan and Iran's are measuring the length of their ropes.

Ishan's rope is 1 m long.

Iran's rope is 170 cm long. [1m=100cm;170cm>100cm]

Whose rope is longer?

Q.3 Biltu measured a cloth using cubit . His mother also measured the length but they got different result.


Why? Who made mistake ? What you can suggest them?


Ans: The result is different because Length of Biltu's cubit and his mother's cubit are different.

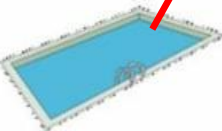
No one made mistake.


They should use a measuring tape.


Q. 4 Match the following:

(1)  A) 52 metre

(2)  (B) 5 centimetres

(3)  (C) 5 kilometres

(4)  (D) 20 centimetres



Q. 5 How far the hospital from the market ? **Ans:2km**



WS:50

CH4: LONG AND SHORT (WS50)

A) Case Study:

Sneha and her sister Neha wanted to make a doll house. Sneha used scale and Neha used her handspan to take measurements. Sneha measured the door of the doll house to be 5cm high and windows as 2cm high each. Neha measured the roof of the doll house as two handspan. Neha left to open the door and asked Sneha to cut a piece of cardboard of two handspan length to make the roof of the doll house. When Neha came back she saw the roof is longer than what she measured.

- 1) 5cm is equal to mm.
- 2) 2cm is equal to Mm
- 3) Who used a standard instrument for measurement?
a) Sneha b) Neha
- 4) Neha used which type of instrument to measure the roof?
a) Ancient b) Modern
- 5) Why do you think length of the roof is longer than what Neha measured?
- 6) What should have Neha done so that both of them have got uniform (same) length of the roof?

WS 50

B) Comprehension Based questions:

Mohan and his son Suraj was walking around his field. Suraj counted that the length of their field is 1000 footspan. He told Mohan “this field is so huge it took me 1000steps to walk along the length of the field”. Mohan smiled and said “yes the field is 2km760m long and it took me 750 steps to walk the complete length of the field”.

7) Who calculated the length of the field wrong using footspan?

8) Should we use footspan to measure the length of any object or place?

9) $2\text{km}760\text{m} = \dots\dots\dots \text{m}$

10) $1 \text{ km} = \dots\dots\dots \text{m}$

CHECK YOUR ANSWERS:

CH4: LONG AND SHORT (WS48)

A) Case Study:

Sneha and her sister Neha wanted to make a doll house. Sneha used scale and Neha used her handspan to take measurements. Sneha measured the door of the doll house to be 5cm high and windows as 2cm high each. Neha measured the roof of the doll house as two handspan. Neha left to open the door and asked Sneha to cut a piece of cardboard of two handspan length to make the roof of the doll house. When Neha came back she saw the roof is longer than what she measured.

- 1) 5cm is equal to 50 mm.
- 2) 2cm is equal to 20 mm
- 3) Who used a standard instrument for measurement?
a) Sneha b) Neha
- 4) Neha used which type of instrument to measure the roof?
a) Ancient b) Modern
- 5) Why do you think length of the roof is longer than what Neha measured? Ans: Length of the roof is longer than what Neha measured as Sneha's handspan is longer than Neha's handspan.
- 6) What should have Neha done so that both of them have got uniform (same) length of the roof? Ans: Neha should have used measuring tape or scale to measure uniform (same) length of the roof.

CHECK YOUR ANSWERS:

B) Comprehension Based questions:

Mohan and his son Suraj was walking around his field. Suraj counted that the length of their field is 1000 footspan. He told Mohan “this field is so huge it took me 1000steps to walk along the length of the field”. Mohan smiled and said “yes the field is 2km760m long and it took me 750 steps to walk the complete length of the field”.

7) Who calculated the length of the field wrong using footspan?

Ans: None, both are correct.

8) Should we use footspan to measure the length of any object or place?

Ans: No

9) $2\text{km}760\text{m} = 2760\text{m}$

10) $1\text{ km} = 1000\text{m}$

THANK YOU