

M305

estimates and measures length and distance using standard units like centimetres or metres and identifies relationships.

LEVEL-1

Test item-1: Which of these objects could be less than 10 cm in length ?



Eraser



Sharpner



Leaf

Option A: Eraser

Option B Eraser and leaf

Option C: leaf and sharpner

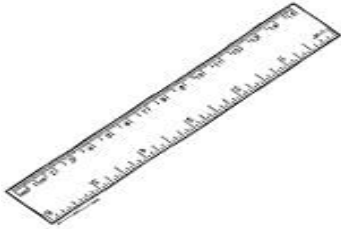
Option D: Each one of the above

Correct Option: D

All the objects are less than 10 cm in length

Test item-2: Which of the following is always longer than 1metre?

Option A: Ruler



Option B:Leaf



Option C: Crayon color

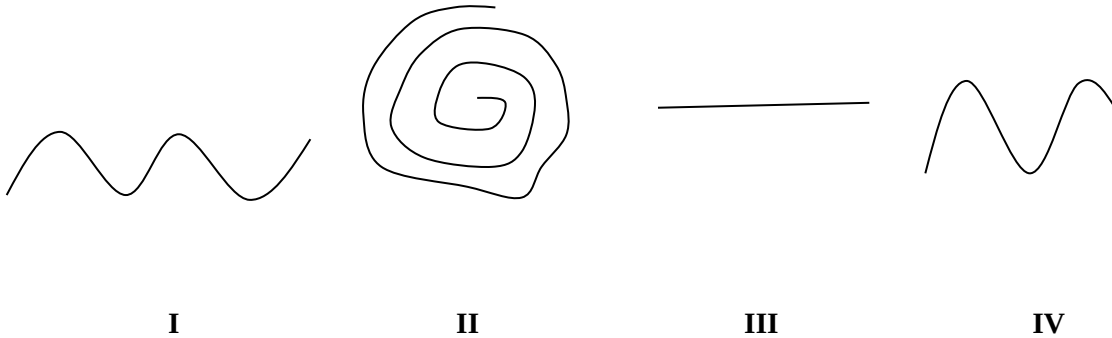


Option D: Sari



Correct Option: D

Test item-3: Which string is the longest?



Option A: I

Option B: II

Option C: III

Option D: IV

Correct Option: B

Hints/ Solution :

The string which is spiral will be the longest though it looks short because of the loops it is having

Students can be asked to take a string and measure the lengths to compare all the four given figures

Test item-4: Estimate the length of your middle finger.

Option A: 3 kg

Option B: 3 meters

Option C: 6 centimeters

Option D: 15 cm

Correction Option: C

Hints/ Solution

6 cm is approx length of middle finger.

Test item-5:

Mithoo is going to his village in summer vacation he is going by train. Estimate the length of train.

Option A: 500 liters

Option B: 500 kms

Option C: 500 ms

Option D: 500 kgs

Correction Option: C

Hints/ Solution

The average length of train is 500 meters in India.

Test item-6: Which of the following can be length of the classroom blackboard?

Option A: 4 kg

Option B: 8 cm

Option C: 2 meters

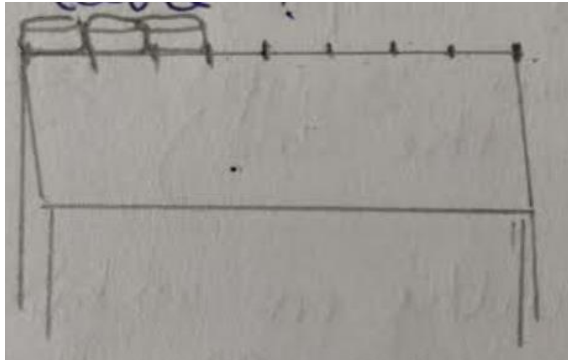
Option D: 10 meters

Correction Option: C

Hints/ Solution

Length of classroom blackboard is 2mtrs approx.

Test item-7: How many bowls can be placed in a line on this table?



Option A: 3

Option B: 8

Option C: 5

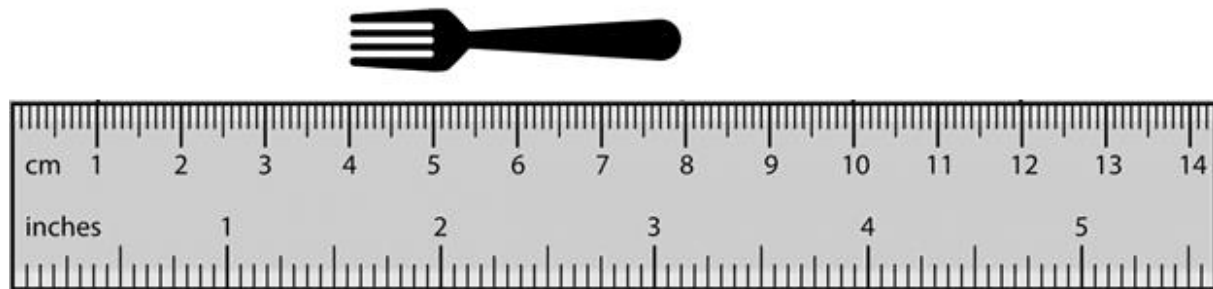
Option D: 15

Correction Option: B

Hints/ Solution

3 bowls are there and space of 5 more can be seen.

Test item-8: find length of the fork.



Option A: 3 cm

Option B: 4 cm

Option C: 2 cm

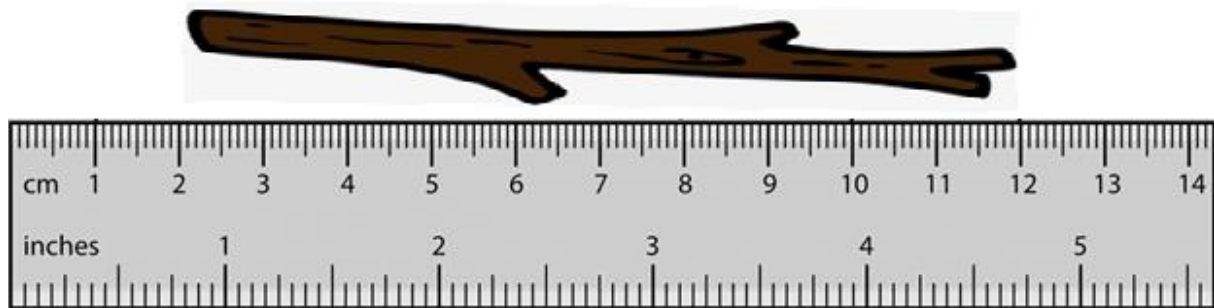
Option D: 6 cm

Correction Option: B

Hints/ Solution

Length of fork = $(8 - 4) \text{ cm} = 4 \text{ cm}$

Test item-9: The length of a thread and the stick (shown below) is equal.



How long is the thread?

Hints/ Solution

Length of the stick = 10 cm

So, length of thread = 10 cm

Test item-10: which of the following cannot be measured in metres?

Option A:Length

Option B: height

Option C:weight

Option D: width

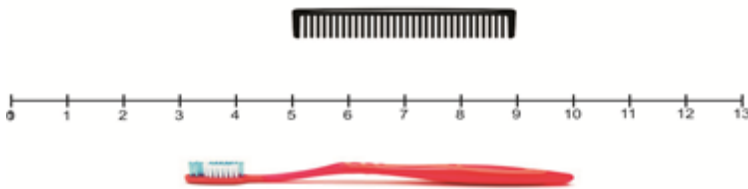
Correct Option : C

Hints/Solution:

Length, height and width can be measured in metres. Weight is measured in kilograms and grams.

LEVEL-2

Test item-1: Consider the figure shown.(Scale shows unit in cm)



Select the correct statement.

Option A: Toothbrush is 2cm longer than the comb.

Option B: Comb is 2cm shorter than the toothbrush.

Option C: Toothbrush is 3cm longer than the comb.

Option D: Toothbrush is 1cm longer than the comb.

Correct Option: C

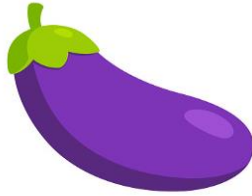
Hints/Solution:

Length of toothbrush=7cm

Length of comb=4cm

Therefore, toothbrush is 3cm longer than the comb.

Test item-2: Look at the vegetable shown below.



Radha : I will use scale to measure its length.

Rinki : I will use thread to measure its length.

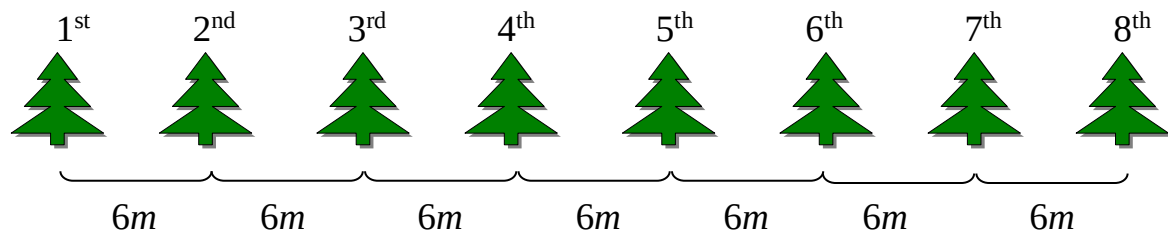
Who is using the correct way? Why ?

Hints/Solution:

Things with curved edges are easily measurable using thread as compared to scale.

So, Rinki is more correct as she is using better way to measure the length.

Test item-3: 8 plants were planted as shown below. They were in a row at a distance of $6m$ from each other.



How far is 1st plant from the 5th plant?

Option A: $48\ m$

Option B: $24\ m$

Option C: $54\ m$

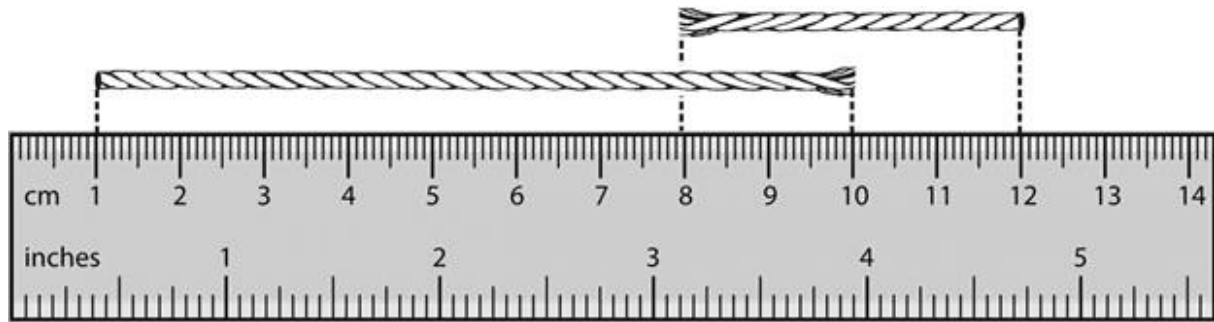
Option D: $6\ m$

Correct Option : B

Hints/Solution:

$$6\ m + 6\ m + 6\ m + 6\ m = 24\ m$$

Test item-4: A rope broke into two pieces as shown in the picture given below.



What is the actual length of the rope?

Option A: 12 *m*

Option B: 9 *cm*

Option C: 10 *cm*

Option D: 13 *cm*

Correct Option: D

Hints/ Solution :

Length of longer part of the rope = 9 *cm*

Length of smaller part of the rope = 4 *cm*

Therefore, actual length of the rope is (9 *cm* + 4 *cm*) = 13 *cm*

Test item-5: Distance of my school is 90 m from my house. I go to the school and return using the same way. What is the total distance I travel?

Option A: 90m

Option B: 180m

Option C: 190m.

Option D: 18m

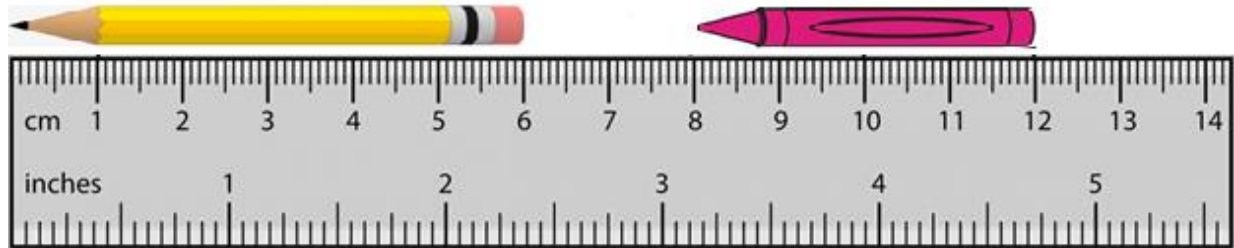
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Correct Option: B

Hints/Solution:

Total distance travelled = 90 m + 90 m = 180 m

Test item-6: Find length of pencil and crayon.



	Pencil	Crayon
Option A:	6cm	4cm
Option B:	4cm	6cm
Option C:	6cm	8cm
Option D:	4cm	12cm

Correct Option : A

Test item-7: A ribbon is 1m long. It was cut into 2 equal parts.

Select the correct statement for length of each part.

- (a) It is less than 50 cm
- (b) It is more than 50 cm
- (c) It is equal to 50 cm

Hints/ Solution :

It is equal to 50 cm.

$$1\text{m} = 100\text{ cm} = 50\text{cm} + 50\text{cm}$$

Statement (a) is correct.

Test item-8: Write True/ False.

- (a) Length of Laptop screen is less than 1m.
- (b) Length of a book can be measured in centimeters.
- (c) Height of a child is always more than 1m.

Hints/ Solution :

- (a) True
- (b) True
- (c) False

Test item-9: Given table shows length of pencils of some students.

Name of Students	Length of Pencil
Jacob	15cm
Jiya	12 cm
Jigyasa	14 cm

Fill in the blanks

(a) Length of longest pencil is _____ cm.

(b) ____ has the shortest pencil.

Hints/ Solution :

(a) Length of longest pencil is **15** cm.

(b) **Jiya** has the shortest pencil.

Test item10-: Two tailors were making a scarf of 1m long each. One has 50 cm long cloth and another has 60 cm long cloth.

Find length of cloth each needs more?

Hints/ Solution :

Taylor-1= $100-50= 50\text{cm}$

Taylor-2 = $100-60= 40\text{cm}$