4 Smaller lengths - bigger lengths
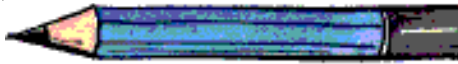
Estimate, how long these pencils are?

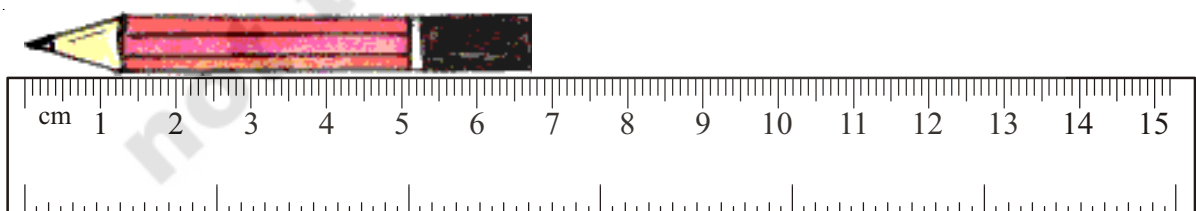_____cm   _____cm

Now, measure them by using a scale.

The blue pencil is 6 cm.

The red pencil is more than 6 cm but less than 7cm.

One centimeter is divided into 10 smaller lengths called millimeters. 10 millimeters are equal to a centimeter. So each millimeter is one-tenth of a centimeter.

So the red pencil is 6 centimeters 7 millimeters long. Millimeter is represented by mm.

The red pencil is _____mm more in length than blue pencil.

Do This

1. Measure the length of the Object/Item given below and record in the table given below.

Item/Object	Measured length
Your pencil	_____ cm _____ mm
Your chalk	_____ cm _____ mm
Your thumb nail	_____ cm _____ mm
Your longest finger of hand	_____ cm _____ mm
Your rubber	_____ cm _____ mm

2. Estimate, draw and then measure length of lines

   (a) A line of half a cm   (b) A line of 6 cm

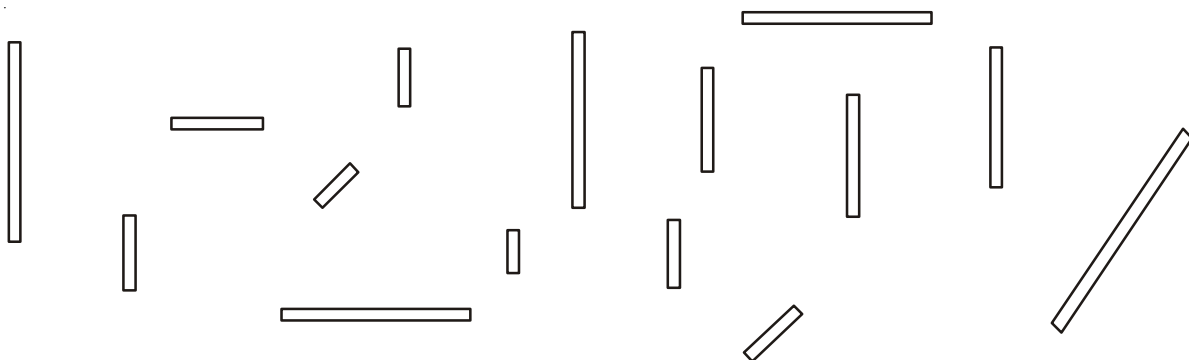   (c) A line of 10 cm   (d) A line of 15 cm

Try This

1. Which insects that you know are of less than one cm in length?

2. Estimate the length of the chalk pieces and colour them as given below. Then measure and check if your estimate was correct.

Chalk of length less than 1cm - Red

Chalk of length between 1 and 2 cm - Blue

Chalk of length between 2 and 3 cm - Green

Sports Day

Today is Rangayapally school's sports day.

The results of long jump made by 6 children are given in the table below.

Name of child	Distance jumped
Sandhya	3 m 10 cm
Laxmi	3 m 25 cm
Shailaja	3 m 60 cm
Kiran	3 m 5 cm
Bhairav	3 m 20 cm
Nithin	3 m 50 cm

1. Who is the winner? _____

2. How long has she jumped? _____

3. What is the difference in the length of the jump of the girl who has jumped the longest and the one who has jumped the shortest?

4. How many more cms are to be jumped required to meet the 4 m target?

   (a)   Shailaja   3 m 60 cm + _____ = 4 m

   (b)   Kiran   3 m 5 cm + _____ = 4 m

   (c)   Bhairav   3 m 20 cm + _____ = 4 m

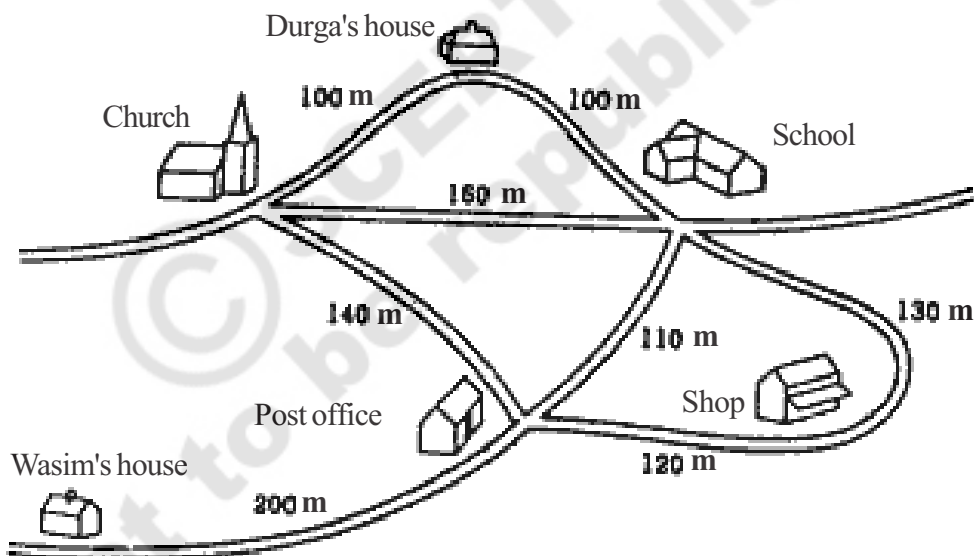   (d)   Nithin   3 m 50 cm + _____ = 4 m

Which vehicle can pass under the bridge?

Only vehicles less than 3m 50 cm in height can pass under the bridge. Which of these vehicles will be able to pass under the bridge?
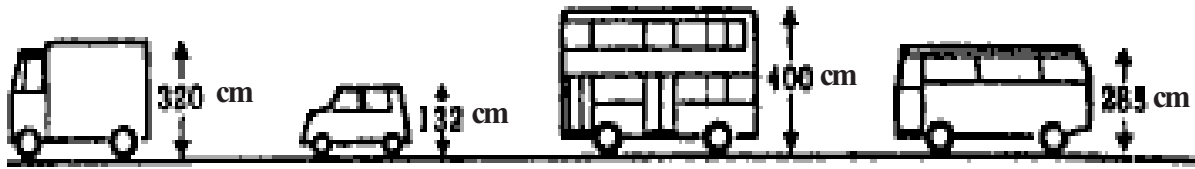
Gorantla Village

The route map given below gives the distances between important places in Gorantla village.


Now, answer the following questions based on the route map.

(a)   Wasim crossed the post office, shop and school to reach Durga's house. How much distance did Wasim cover?

(b)   Durga left her house at the same time as Wasim to meet him. She crossed the church and post office to reach Wasim's house. How much distance did Durga travel to reach Wasim's house?

(c)   Who took the longer route?

Shanu's bus trip to Hyderabad

Shanu is going to Hyderabad to visit his uncle's house. On the way to the Hyderabad, he observed some milestones.

Oh! Hyderabad is 80 km away.

80 KM HYDERABAD
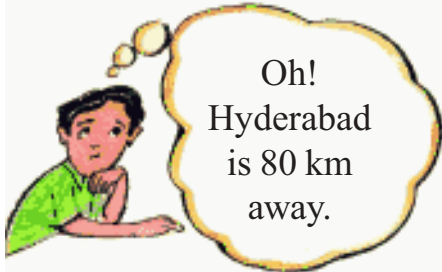
He then observed this milestone-

200 Mtr

Then after a few minutes he saw this milestone-

400 Mtr

Again, after a few minutes he saw this milestone-

600 Mtr

And then this-

800 Mtr

Then he observed this milestone-

79 KM. HYDERABAD

We have travelled one killometer between the 80 km and 79 km milestones.
Each km = 1000 m
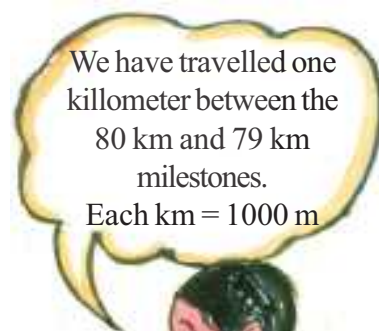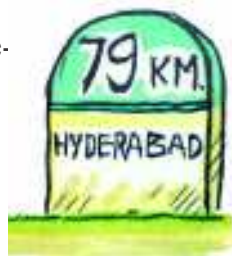
He looked confused. His mother explained.

1.   How many 200 m are there in a kilometer? _____

2.   How many 100 m are there in a kilometer? _____

3. $\dfrac{1}{2}$ km = _____ m

4. $\dfrac{1}{4}$ km = _____ m

The lengthy rivers of India

The table given below gives details of the length of some major rivers of India.

Name of River	Length
Godavri	1465 km
Ganga	2526 km
Krishna	1400 km
Yamuna	1376 km
Narmada	1312 km

(a)   Write the names of the rivers in the order of their length (from the shortest to the longest).

(b)   The longest river in the world is Nile- 6650 km.

How much shorter is the Ganga than the Nile?

How much shorter is the Godavri than the Nile?

(c)   The length of some Bridges on the rivers is given here under. Express it in km, m and cm.

Prakasham Barrage 1223 m = _____ km _____ m _____ cm

Dhavaleshwaram Bridge 2701 m = _____ km _____ m _____ cm

Try This

1. Estimate, what is the distance between your school and home?

2. Estimate, what is the distance between your village and your mandal headquarters.

How tall I am?

The teachers of Motlapally Primary School conducted a health camp. The doctor recorded the height and weight of children in their health cards.
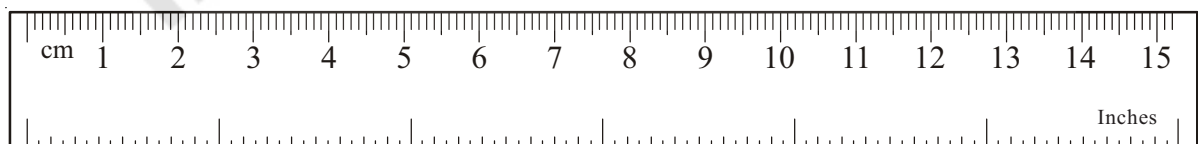
This is Sonu's Health Card-

Health Card

Name	:	K. Sony
Fathers Name	:	Srinivas
Class	:	V
Height	:	4'11"
Weight	:	34 kg.

What is sonu's height?

Before trying to answer this question look at the scale in your pencil box. On one side we have centimeters and on the other inches.

A small scale like the one drawn above, shows 6 inches and a big scale shows 12 inches. 12 inches is equal to a foot. We write feet with a line (') and inches with two small lines (").

So, Sonu's height is 4 feet 11 inches.

Smaller lengths - bigger lengths

Do This

Record your height and your four friends in feet and inches.

S. No.	Name	Height in feet & inches	Height in inches
Example	Sonu	4'11"	59"
1.			
2.			
3.			
4.			

Who is the tallest amongst all of you? _____

Exercise

1. Madhu's house is 3 km away from his school. He covers 2 km 350 m on cycle and the remaining distance on foot. How much distance does he cover on foot?

2. How many bricks of length 20 cm will be needed to keep along the foot of a wall of 80 meters long?

3. Fill in the blanks

   (a) 12 km = _____ m

   (b) 2 km 400 m = _____ m

   (c) 4500 m = _____ km _____ m

   (d) 7750 m = _____ km _____ m _____ cm

   (e) 22 mm = _____ cm _____ mm

   (f) 75 mm = _____ cm _____ mm

   (g) 9 cm 5 mm = _____ mm

   (h) 12 cm 8 mm = _____ mm

4. Bindu's house and the market are in opposite directions from the school. The distance between Bindu's house and the school is 4 km 660 m and the distance between the school and the market is 2 km 800 m. Bindu goes from her house to the school and then to the market. How much distance has she travelled?

5. If you walk from Sana's house you will first reach Ramija's house and then their school. Sana's house is 2 km 345 m from school and Ramija's house is 1 km 650 m from school. What is the distance between Sana and Ramija's house?

6. A tailor uses 3 m 10 cm of cloth to stitch one coat. How much cloth does he require to stitch 4 such coats?

7. Ashish is travelling from Hyderabad to Vijayawada. He saw this board on the highway road while starting.

(a) How much distance he has to travel from Hyderabad to Vijayawada?

(b) Which distance is more - Suryapet to Kodad or Kodad to Vijayawada?

(c) What is the distance between Suryapet and Vijayawada?

Smaller lengths - bigger lengths