

Keeku's Funny Measurement



Suit silane ki zid mann me,
oont ji ne thani.
Chale maap dene darzi ko,
sang me oontni rani.
Uchhala-kooda keeku darzi,
maap nahi le paya.
Gaya bhagkar Motumal se,
unchi seedhi laya.
Kitna kapda lagega keeku,
bole oont dada.
Keeku bola sadhe barah
meter lekar aajaa.



Now tell-

Where would the camel (oont) have gone to buy cloth for his suit?

How much cloth would he have asked for?

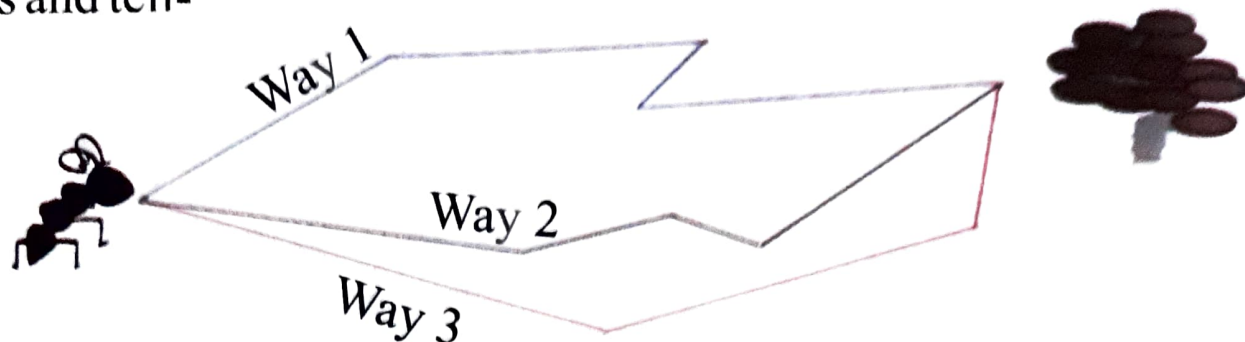
What would the shopkeeper have measured the cloth with?

You also measure with scale and write-

- The length of your maths book =centimetre.
- The breadth of your maths book =centimetre.
- The length of your hand span =centimetre.
- The length of your hand =centimetre.

Ant and grains

The ant wants to reach the grains by the shortest route. Measure the routes and tell-



Which is the shortest route?.....

Length of the shortest route iscm

Now you also make your meter scale-

Take one rope and measure upto 100cm with the help of meter scale /measuring tape.

Put a mark on the measurement of 100cm.

Cut the rope from the mark, and your meter scale is ready.

How many centimetres are there in your meter scale?

$$100\text{cm} = 1\text{metre}$$

In short we write
centimetre in cm.
and meter in m.

Guess and test-

- Find such things which seem to be one metre long.
- Measure these things by meter scale.
- Observe, which is longer than 1 metre and which is shorter?
- Longer than 1 metre.
- Shorter than 1 metre.

Now, make a chart of your friends' height-

Measure the heights of your friends' by meter scale. Use scale along with meter scale, if needed.

Name of friend	More /equal/ less than 1 m.	How many cm more or less than 1 metre?
.....		
.....		
.....		
Length of your class room	 m	 cm.
Width of your class room	 m	 cm.

Mamaji's home-

Raj is going to visit his mama's home by bus.

He sees stones on roadside with something written on them. On one of them he reads- "Mughal Sarai 5 km."

He asked, "Mother, what is this?"

Mother- This milestone is indicating that Mughalsarai is 5km away from here.

Raj- Okay! How much long is 5km?

Now, you help to explain the distance of kilometre.

Raj knows- $100\text{cm} = 1\text{metre}$

When we measure any length by 1000 times with a meter scale, that distance is 1km.

$1000\text{ metres} = 1\text{ km}$ or $1\text{ km} = 1000\text{ metres}$



Understand and do-

$$2 \text{ km} = 2 \times 1000 \text{ metre} = \dots\dots\dots \text{metre}$$

$$5 \text{ km} = \dots\dots\dots \times \dots\dots\dots \text{metre} = \dots\dots\dots \text{metre}$$

$$3 \text{ km } 650 \text{ metre} = \dots\dots\dots \text{metre}$$

$$3700 \text{ km} = \dots\dots\dots \text{metre } \dots\dots\dots \text{metre}$$

Babatpur is at a distance of 1km 350m from Shahpur. How much distance has to be covered in travelling from Shahpur to Babatpur and back?

Distance covered to reach there-

1 km 350 m

Distance covered on returning from there-

1 km 350 m

First we add metres-

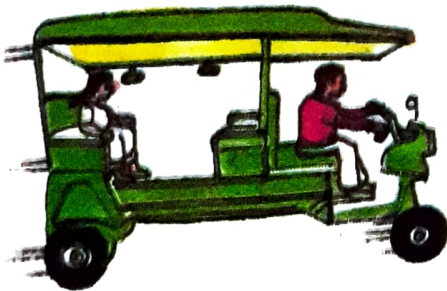
$$350 \text{ m} + 350 \text{ m} = 700 \text{ m}$$

Then we add kilometres-

$$1 \text{ km} + 1 \text{ km} = 2 \text{ km}$$

$$\text{Total distance} = 2 \text{ km } 700 \text{ m}$$

km	m
1	350
+	1 350
2	700



Reena walked first 765m. Then she travelled 2km 600m by rickshaw. How much distance has she covered in all?

First we add -

$$765 \text{ m} + 600 \text{ m} = 1356 \text{ m}$$

$$= 1 \text{ km } 365 \text{ m}$$

$$\text{Total distance covered} = 2 \text{ km} + 1 \text{ km } 365 \text{ m}$$

$$= 3 \text{ km } 365 \text{ m}$$

km	m
2	600
+	765
3	365

How much is 24 km 350m less than 46 km 875 m?

First we subtract metre

$$875 \text{ m} - 350 \text{ m} = 525 \text{ m}$$

Then, we subtract km

$$46 \text{ km} - 24 \text{ km} = 22 \text{ km}$$

$$\text{Difference} = 22 \text{ km } 525 \text{ m}$$

km	m
46	875
- 24	350
22	525

We have learnt

- To convert metres into cm, we multiply metre by 100.
- To convert cm into metre, we divide cm by 100.
- To convert kilometre into metre, we multiply kilometre by 1000.
- To convert metre into kilometre, we divide metre by 1000.



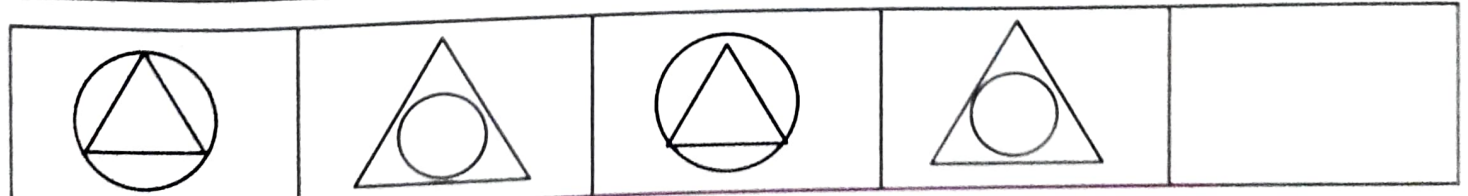
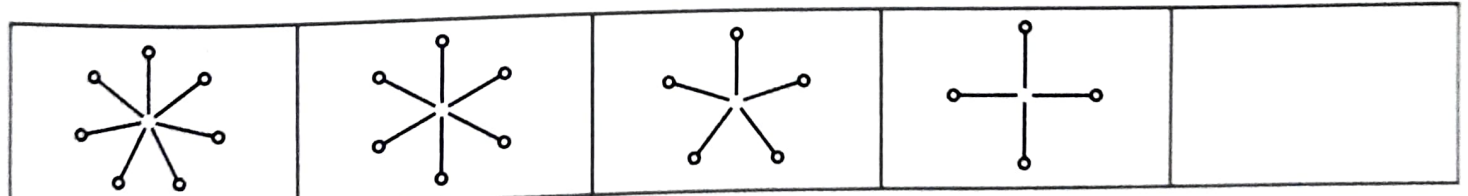
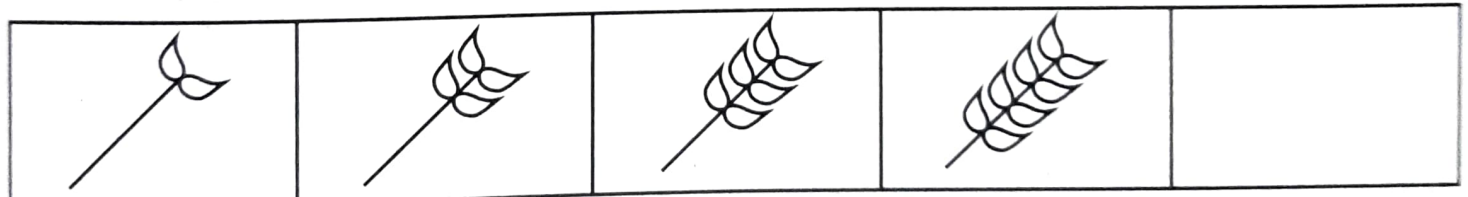
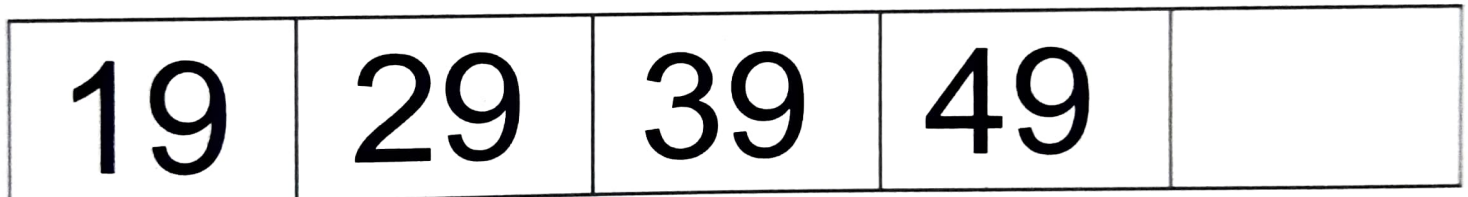
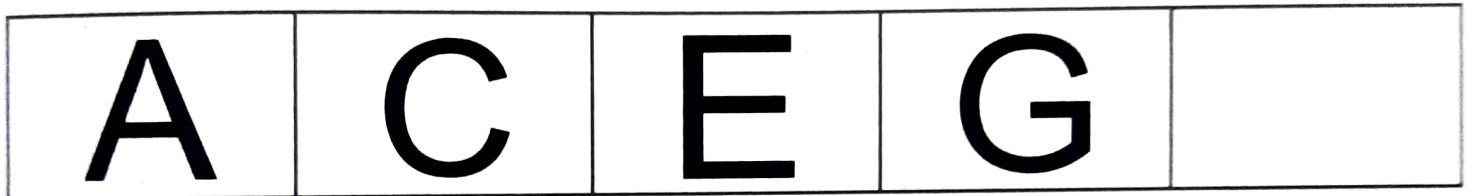
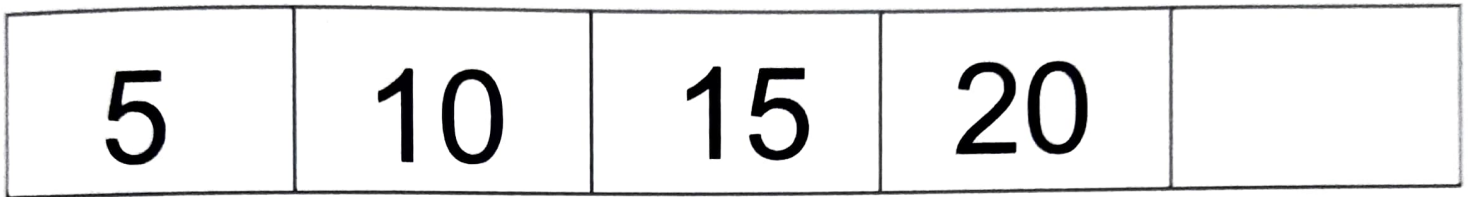
Exercise

- Hundredth part of a metre is called
 - Thousandth part of a km is called
- Fill in the blanks
 - $625 \text{ cm} = \dots\dots \text{m } \dots\dots \text{cm}.$
 - $80 \text{ cm} + 41 \text{ cm} = \dots\dots \text{m } \dots\dots \text{cm}.$
 - $45 \text{ cm} + 55 \text{ cm} = \dots\dots \text{cm} = \dots\dots \text{m}.$
 - $49 \text{ cm} - 41 \text{ cm} = \dots\dots \text{cm}.$
- Nizam travelled 345km 650m by bus and 30km 350m by car. How much distance did he travel in all?
- Avanish's height is 1m 46cm and Ramiya's height is 157cm. who is taller and by how much?

Look, Observe and Complete the Patterns



Observe and complete the patterns-



Provide enough opportunities of practice to the students by making more patterns like this.

Test Yourself



1. Take any number of two digits. On changing the order of both the digits, a new number is formed. The difference of these two numbers is always divisible by 9.
2. Take any 3 digit number, change the place of the digits in any order. The difference between these two numbers is also divisible by 9.
3. In the same way, take any 4 digit number. Make any new number using its digits. The difference between these two numbers will also be divisible by 9.

Do you know why?

- The difference between 1 ones and one ten is 9.
- The difference between 1 ten and 1 hundred is 90, which is divisible by 9.
- The difference between 1 ones and 1 hundred is 99, which is also divisible by 9.
- Therefore, when we make any new number with the digit of a given number, the difference between the two numbers will always be divisible by 9.

Calculation of zero- The invention of zero is a significant one among the mathematical digits.

Addition- If zero is added to any number its value does not change.

For example- $5 + 0 = 5$

Subtraction- If zero is subtracted from any number its value does not change.

For example- $5 - 0 = 5$

Multiplication- The product of any number and zero is zero.

For example- $5 \times 0 = 0$

Division- No number is divisible by zero.

