

Grade – IV Maths Specimen сору

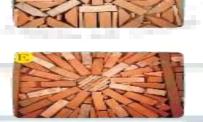
Year 21-22

<u>CH-1</u>

Building with Bricks

***** Summary:

- What is called pattern?
- Geometrical shapes 2D, 3D shapes
- Draw the difference shapes in 2D and 3D
- See the different views of a brick: (Front, Side and Top view).
- Draw the table and write sides, corners, edges, faces of given name of shapes.
- Which kind of wall will not fall? why?
- Draw the different kind of Bricks' wall pattern.
- Find out the price of a Brick / Bricks.
- Given the table below, fill the blanks in table.
- Activity





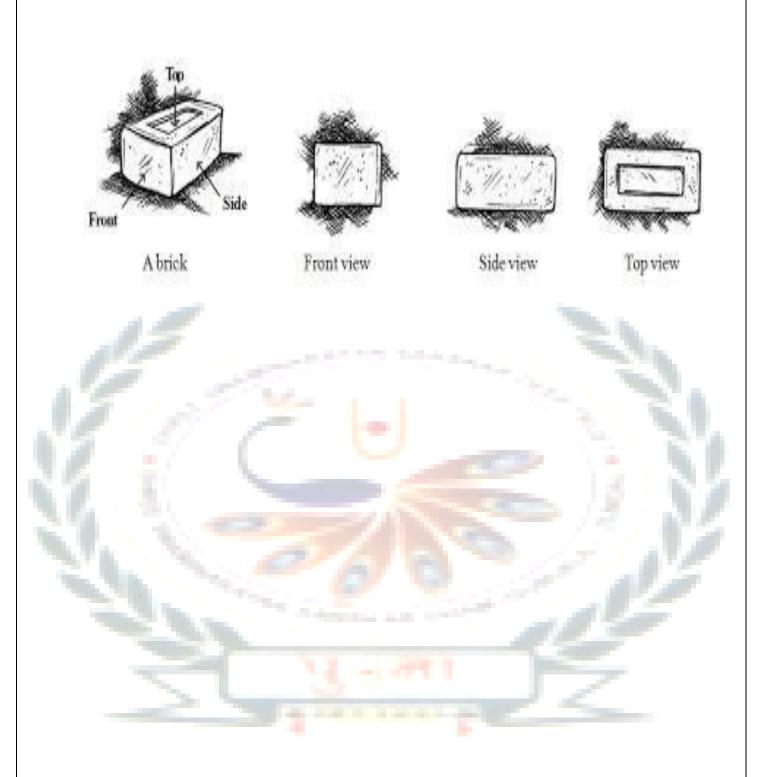




- What is called pattern?
- Patterns are shapes, designs, groups of numbers that repeat themselves in a predictable manner.
- Geometrical shapes 2D, 3D shapes
- 2 D Shape- A two-dimensional shape is a shape that has length and width. The plane figures that can be drawn on a flat (or plane) surface or a piece of paper. A square, triangle, and circle are all examples of a 2D shape. However,
- 3 D Shape- A three-dimensional shape can be defined as a solid figure or an object or shape that has three dimensions length, width and height. One example of a 3D shape is a rectangular prism, which is made up of four rectangles and two squares.

• Draw the difference shapes in 3D.

- Triangle
- Cuboid
- Rectangle
- Cube
- Dice
- See the different views of a brick: (Front, Side and Top view)

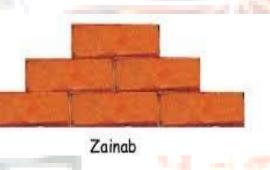


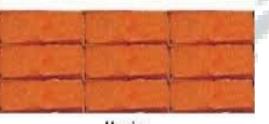
• Draw the table and write sides, corners, edges, faces of given name of shapes.

Sr no	Shapes	Corners	Sides	Edges	Faces
1	Rectangle	4	4	4	1
2	Square	4	4	4	1
3	Triangle	3	3	3	1
4	Cuboid	8	6	12	6
5	Cube	8	6	12	6
6	Brick	8	6	12	6
7	Cylinder	0	0	0	2
8	Circle	0	0	0	1
9	Sphere	0	0	0	0

• Which kind of wall will not fall? why?

One day Zainab and Muniya are playing with bricks and making their walls. Each makes a different wall.



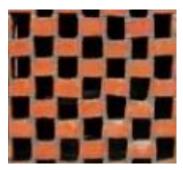


Muniya

- Zainab says her wall will not fall easily, Masons too do not put bricks one on top of the other, as Munia has done.
- What do you think? Which wall will be stronger? Zainab's wall
- -
- Draw the different kind of Bricks' wall pattern.
- 'Jaali'

The Masons who built School has also made different types of 'jaali' patterns on the walls.

Also, in Kerala a library building walls made with 'jaali' pattern.



- Triangle

The triangle pattern used to make boundary surrounding trees, plants etc... Triangle shapes also used in library in Kerala which made with triangle patterns of bricks.

Have you seen bricks that look like triangles? Look at the bricks around the tree in this photo.



Do you see the **arch** in this photo? This is from a school in Faizabad.

- An Arch

This type of pattern used to make a design in windows, also makes bridges over river or cannel that time uses a special arch. We can see arches in rainbow, bridge, tunnel etc

In Orchha, Ghoonghat waali Mehraab building made arch with a veil.





- Find out the price of a Brick / Bricks.
- Unitary Method
- Finding out the value of one from many and then the value of many from the one is called unitary method.
- 1. If a Brick cost Rs. 1 then the cost of 500 bricks will be **Rs. 500**.

a 1 brick cost Rs.1

therefore, 500 bricks cost = Rs. (?)

= 500 x Rs. 1 = 500 Rs

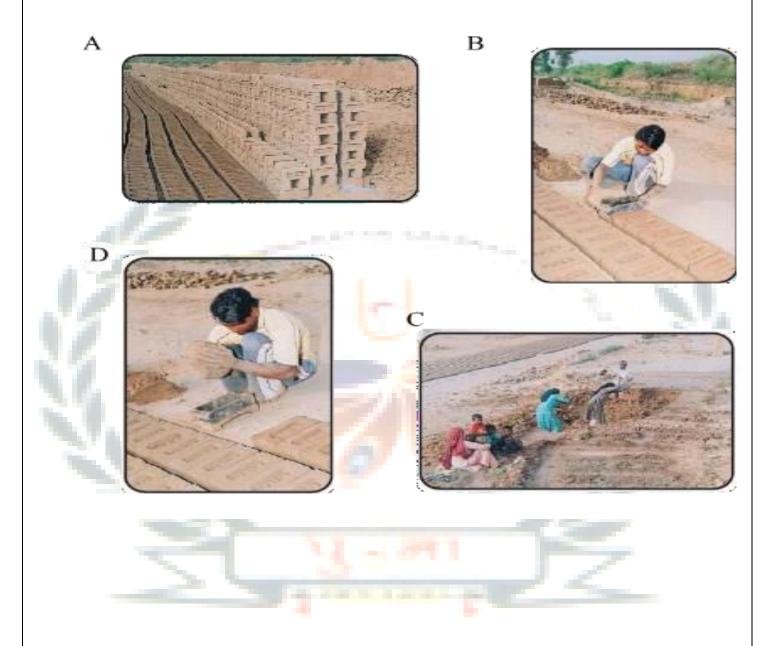
- 2. If the cost of a brick is Rs. 2 then the cost of 1000 bricks are **Rs. 2000**.
- 3. If the cost of a brick Rs. 5 then the cost of 2000 bricks are **Rs. 10,000**.
- 4. If the cost of 2000 bricks are Rs. 8000 then the cost of 1 brick is **Rs. 4**.
- 5. If the cost of 6000 bricks are Rs. 3000 then the cost of 1 brick is **Rs. 2**.

• Given the table below, fill the blanks in table.

Sr no	No of Bricks	Cost of bricks	No of Bricks	Cost of bricks
1	1000	Rs. 6000	500	<u>Rs. 3000</u>
2	2000	Rs. 18000	1000	Rs. 9000
3	6000	Rs. 30000	2000	<u>Rs. 10000</u>
4	8000	Rs. 24000	3000	Rs. 9000
5	10000	Rs. 30000	4000	<u>Rs. 12000</u>

• Activity

- Make the chart paper and draw the picture chart of bricks, how it made.



<u>CH-2</u>

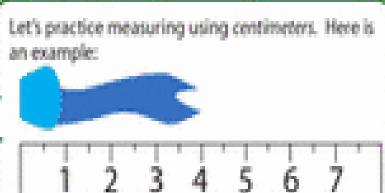
Long and short

* Summary

- Introduction Measurement of length
- Convert kilometre into metre
- Convert metre into kilometre
- Convert the metre and centimetre into metre.
- Addition the following.
- Subtraction the following.
- Word problem.
- Complete the table and answer the questions below.
- Read the following table and answer the following question.
- Activity

Learning about measuring in centimeters





The ribbon measures: 4 centimeters long

<u>Measurement of length</u>

Measurement of something from its one end to the other is called its length. The standard unit of length is meter. We use different units to measure different length. Millimetre, centimetre and kilometre.

- Metre is used to measure average distance.
- Kilometre used to measure long distance.
- 1 metre = 100 centimetres
- 1 kilometre = 1000 metres

Which is a better unit to measure these? (cm, m or km)

- a. Length of a pin <u>cm</u>
- **b.** Height of a house <u>m</u>
- c. Distance the scooter travels $-\underline{\mathbf{km}}$
- **d.** Height of your pet <u>cm</u>
- e. Distance from Bangalore to Rajasthan <u>km</u>
- **f.** Thickness of your lunch box <u>cm</u>
- g. Height of Qutub Minar <u>m</u>
- h. Distance from Bangalore to Rajasthan km
- i. Height of Qutub Minar <u>m</u>

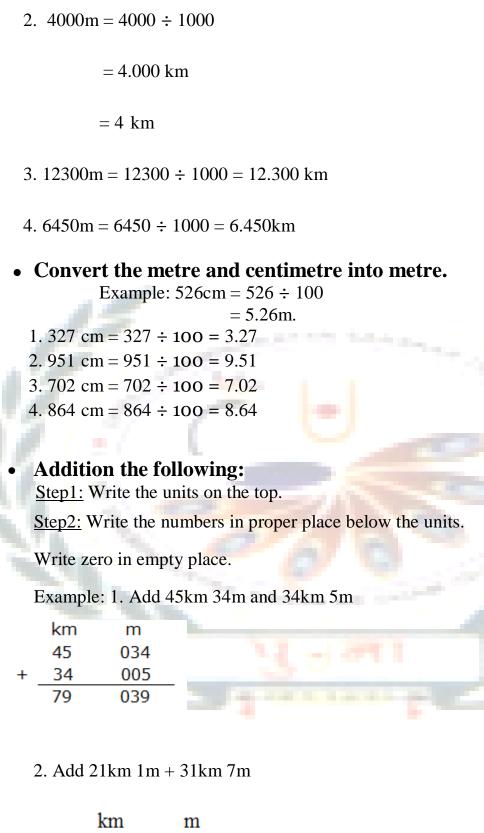
• Convert kilometre into metre: 1. 4 km = 4 x 1000 m = 4000 m. 2. 12 km = 12 x 1000m = 12000m. 3. 3 km = 3 x 1000 m = 3000 m.4. 10 km = 10 x 1000m = 10000m. 5. Example: 9 km 236 m $= 9 \times 1000 \text{ m} + 236 \text{ m}$ = 9000 m + 236 m= 9236 m. 7 km 205 m = 7 x 1000 m + 205 m6. = 7000 m + 205 m= 7205 m. 12km 60m = 12×1000 m + 60 m 7. = 12000 m + 6 m= 12060 m. 8. 19km 215m = 19×1000 m + 215 m = 19000 m + 215 m= 19215 m. 9. $16 \text{km} \ 115 \text{m} = 16 \text{ x} \ 1000 \text{m} + 115 \text{ m}$ = 16000 m + 115 m= 16115m.

• Convert metre into kilometre:

1. $2000m = 2000 \div 1000$

= 2.000km

= 2 km

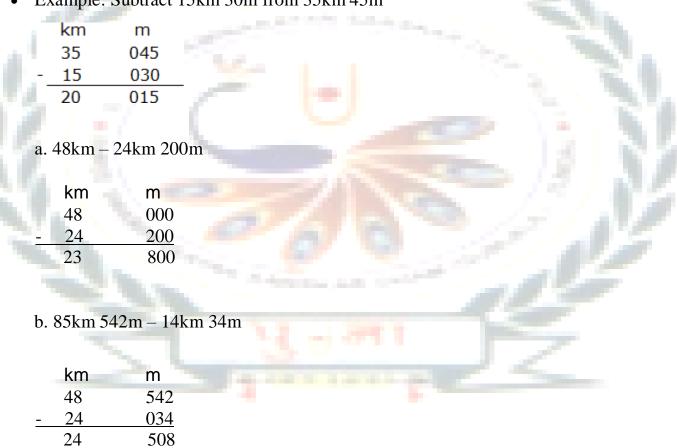


21	001
+ 3 1	007
52	008

3. Add 51km 605m + 12 km 787m

1	1
Km	m
5 1	605
+ 1 2	787
64	392

- Subtract the following:
- Example: Subtract 15km 30m from 35km 45m



1. Word problem:

a. Arya travelled 5km 300m by car and 1km 100m by bike. What distance did he travel in all?

 $5 \text{ km 300 m} \qquad \text{by car}$ $+ 1 \text{ km 100 m} \qquad \text{by bike}$ $6 \text{ km 400 m} \qquad \text{he travels in all}$ 13

b. Gaurav is 92cm tall. His brother is 60cm taller than him. What is the height of his brother?

92 cm + 60 cm 152 cm height of his brother.

• Complete the table and answer the questions below

sr.no	name of the plant	last months	this month	cm-grown
		heigt	height	
1	Rose	28cm	29cm	1cm
2	Mango	13cm	15cm	2 cm
3	Bamboo	22cm	28cm	6 cm
4	Tulsi	8cm	10cm	2 cm

a. The plant which has grown maximum is bamboo.

- **b.** The plant which has grown minimum is Mango, Tulsi.
- c. The plant which has grown by 6 cm is **bamboo**.

d. The plants which has grown by 2 cm is Mango, Tulsi.

• Read the following table and answer the following question

SL.NO	NAMES	DISTANCE OF SIXES BEATENIN A CRICKET MATCH
1	SACHIN	90m
2	YUVARAJ	101 m 5cm
3	GAMBHIR	52 m 25cm

a. What is the difference between the distance hit by Sachin and Yuvaraj? Ans: 11 m 5 cm.

Activity

Make your own height measurement in cm.

