

- What do you see in the picture?
- Spot things in the picture that look the same from the left and right side.



## Make Malas

Soni and Avi reach a stall where a man and a woman are making malas with beads.

Why not, you can take beads from the

## Let us Do

1. Colour the beads in the strings using two colours $(\bigcirc)$
to show the malas that you have made.
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Teacher's Note: You may provide children with a string and 8 beads of two colours from a ginmala. They can make a record of their constructions by colouring the malas given here.


3. How many such malas can be made? Discuss.
a. Tick $(>)$ the malas that are symmetrical and cross $x$ the one(s) that are not symmetrical.

b. Now, use 6 beads of one colour and 2 beads of another colour to make symmetrical malas.


Teacher's Note: Encourage children to see the differences between symmetrical and non-symmetrical objects around them. Provide them opportunities to share their justification and reasons.



1. Observe the rangolis given below. Are all rangolis symmetrical?

2. Trace these rangolis on a paper. Fold the tracing paper in such a way that one half of the rangoli lies exactly on the other half.
3. Draw lines in the given rangolis that divide
 them into two identical halves.
4. Look for other symmetrical things around you. Discuss.


Teacher's Note: Discuss about kolam, and the tradition and the States it belongs to. You may provide children with the dot grid given at the back. They may use it for making symmetrical rangolis.

1 can see two equal halves in my rangoli by drawing a line.



1. Draw and complete the symmetrical rangolis given below.

2. Draw some more rangolis in your notebook that are symmetrical.


Teacher's Note: Give additional exercises to complete a half of a given rangoli. Observe and discuss the ways children draw the other half of the rangoli. What do they notice while completing the other half? What strategies do they use?
Ask children to collect rangoli patterns from different parts of the country and share them in the class.


## Tit for Tat

Soni gets her picture made by a painter.


## Let us Think

1. What is the trick the painter is playing? Find things for the painter to draw so that he can no longer play the trick. Draw three such things here.


The Mirror Game
Soni and Avi started playing this game. Let us play with them.

Avi, 1 am placing four counters on my side.


Now you place your counters in such a way that it is the mirror image of my side.


Has Avi placed the counters at the right places? Check it by placing the mirror on the line drawn.


Soni's side


The counters placed by me are the mirror image of the counters placed by you. Do you agree? Check.


Teacher's Note: As an extension activity, children may use different two-coloured objects such as unit cubes, counters, etc. Once children play this game on the floor. In the game, children may also use more than four objects and challenge their friends.

## Let us Explore

1. Pick the odd one out and give reasons.

(2) Fill 4 boxes with red colour and 3 with blue colour in such a way that one side is the mirror image of the other.

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In how many ways can you fill it?
Think, think!
(3) Make Micy's side the same as that of Catty's side. You can rearrange only three balls in Micy's side.

(4) Which shape cutouts would fit in the given shape without overlapping and without gaps.

Teacher's Note: In question no 1, each part can be the odd one out. Let the children observe and find the odd one out by giving a logical reason for their answer.


Tiling the paths


Let us Do

1. Use rangometry shapes to fill the shapes with no gaps and overlaps.


## Making Tiles, Creating Paths

Soni and Avi have started making their own tiles by joining different shapes.


Soni's tiles


Avi's tiles

## Let us Do

1. Use two or more rangometry shapes to create your tiles. Now trace the tiles to create different paths.

2. Try making these paths.


Teacher's Note: Children can create different tessellations on a blank sheet and their work can be displayed in the class. Discuss with them the repeating unit.


Giant Wheel
Read the conversation between Soni and Avi and mark the place they are talking about.


Imagine yourself sitting with Soni and Avi. You think of a place or a stall and challenge your friend to find out which stall you have in your mind. You can help them guess by answering yes or no.

Search for Dada and Dadi
Soni and Avi's Dada and Dadi were missing. They hear their announcement.

Dada and Dadi of Soni and Avi are waiting for them in the chaupal.

Where is the chaupal?


Uncle, can you help us find the chaupal?

We can find the chaupal from the map that is placed here.



There are pictures here with their names on this map. The picture of the hut shows the handicraft stalls.


Teacher's Note: To make children aware about directions, different games can be played with them where they can follow the directional clues to reach the place where the object has been kept. They can use words like take 2 steps to your right, one step forward, take 5 steps back, 3 steps to your left, etc.

## Let us Do

1. Help Soni and Avi read the map and find the following:
a. Which place does the
b. Circle the picture in the map that shows the play area?
c. Which place does the $P$ 展
d. How many exit routes are there in the fair?
2. Follow the path that Avi and Soni are following.
a. Walk on the blue lane.
b. Turn right on the green lane.
c. You will see a restaurant on your right. Don't sit there.
d. Take a left towards the red lane.
e. Take the first left turn towards the golden lane. Stalls will be seen on the way.
f. Pass the stalls to find the Chaupal and meet Dada Dadi.
3. An uncle asks Dada ji the way to the ATM. Tell him the way to the ATM from the chaupal.
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## Let us Do

1. There are two ways to go out of the Surajkund fair. One seems to be a maze and the other goes straight there.
Follow the maze with Soni and Avi to exit the fair.

2. Share the way you went through the maze. Write the things you found on the way.
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Dot Grids


## Number Cards



## Number Cards



## Fractions Cards



## Tangram

## Squares



## Fractions Cards



## Squares

## Tangram




Net of a Cube


Net of a Cuboid


Net of a Cuboid



Net of a Cylinder


Net of a Cone
o
Diene's Blocks


## Diene's Blocks





## Diene's Blocks

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## Hello Children!

If you feel uneasy about someone touching you inappropriately, you should not keep quiet. You must

1. Not blame yourself
2. Tell someone whom you trust
3. You can also inform National Commission for Protection of Child Rights through the POCSO e-box.

When you get an unsafe touch, you may feel bad, confused and helpless
You need not feel "bad" because it's not your fault


POCSO e-box available at NCPCR@gov.in


If you are below 18 years of age, and are troubled or confused or abused or in distress or know some other child who is...

Call 1098...because some numbers are good!
They change lives!!!


CHILDLINE 1098 - a national 24 hours toll free emergency phone service for children in distress is an initiative of CHILDLINE India Foundation supported
by Ministry of Women \& Child Development



