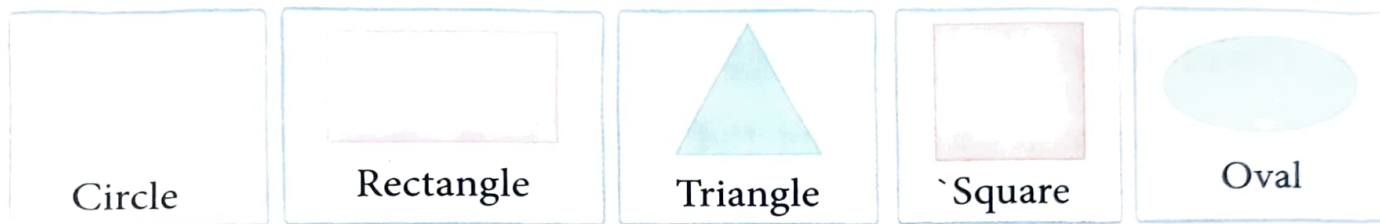


10 | Shapes

PLANE SHAPES

Recall the following shapes.



Warm up



Draw lines from these plane shapes to the matching everyday objects. Each shape connects to more than one everyday object.

1

Circle



Rectangle



Triangle



Square

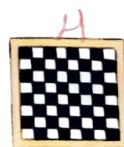


Oval

Vocabulary



- ❖ Plane shape
- ❖ Solid shape
- ❖ Sliding
- ❖ Rolling





Maths Lab Activity (Teacher to Assist)



The teacher can have the cardboard cutouts of a circle, square, triangle and rectangle. Hold up each shape and ask the children to name the shape. Then correlate the shapes with everyday objects, say a circle with a coin, a rectangle with a book and so on.



Class Work



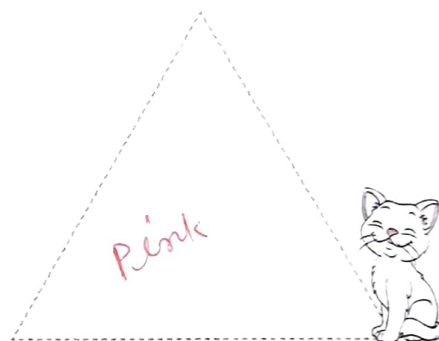
1. Draw the shapes by tracing the dotted lines. Now colour the circle **orange**, the oval **red**, the rectangle **green**, the square **brown** and the triangle **pink**.



Square



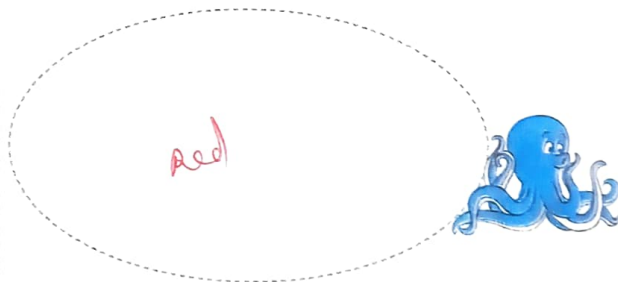
Circle



Triangle

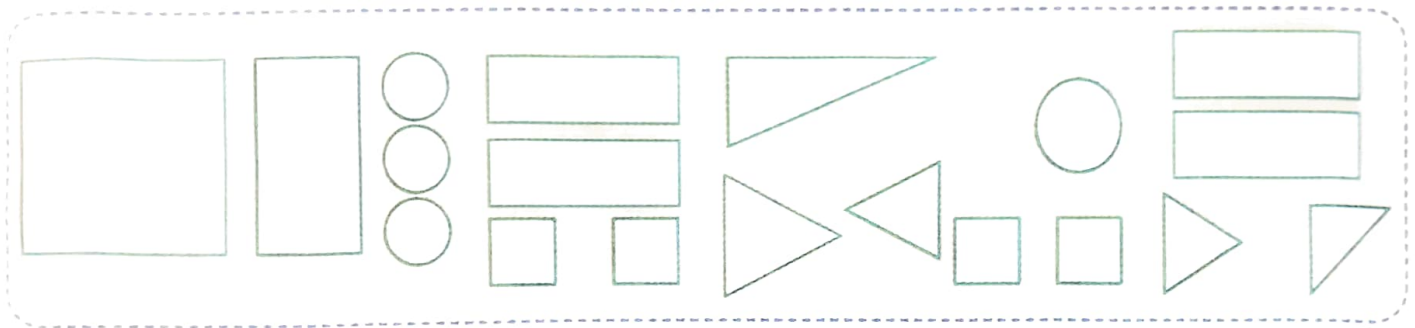


Rectangle



Oval

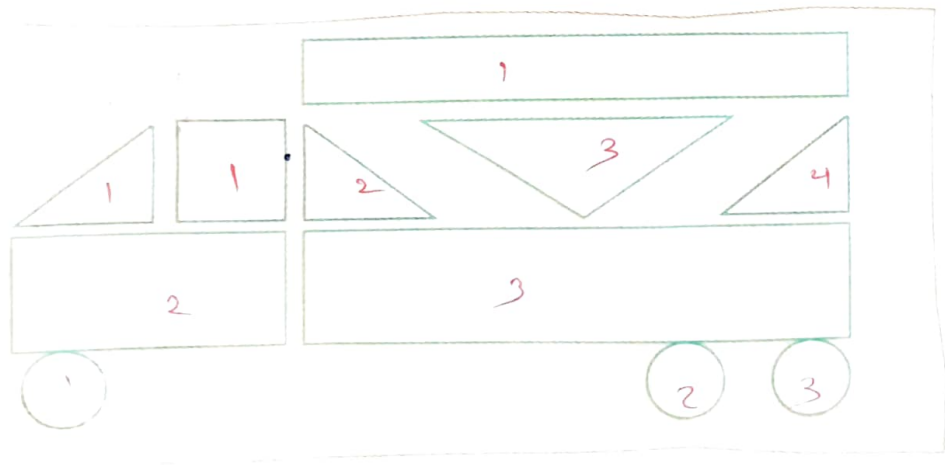
2. Using the shapes given below make a picture in the blank box. You need not use all the shapes.



Exercise 10A

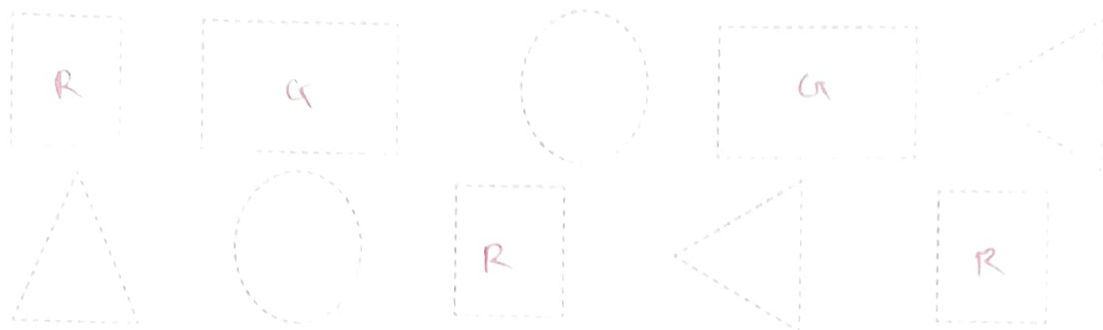


1. Count and write how many of each shape are there in the picture.

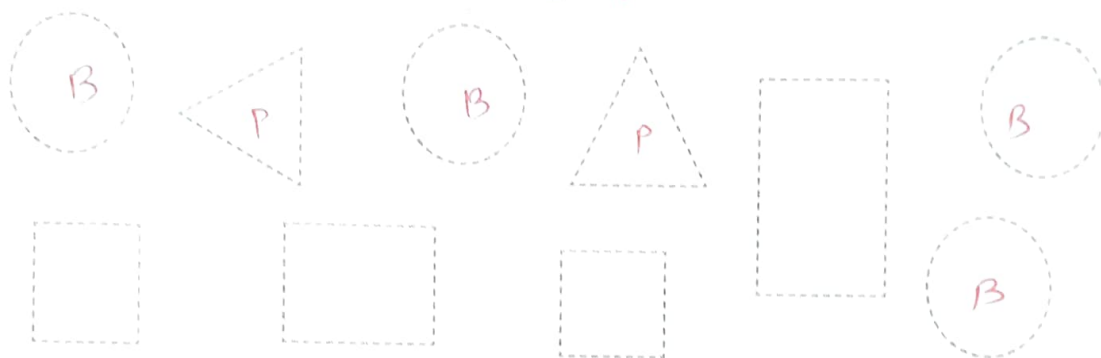


Shape	Triangle	Rectangle	Circle	Square
Number	4	3	3	1

2. Colour the squares **red** and rectangles **green**.



3. Colour the circles **blue** and triangles **pink**.



Worksheet



Match these pictures to make a shape and name the shape.



circle



triangle



Rectangle



Square

John, Rita, Peter and Hazel have some shapes each. Study the information given below and find out who has which set of shapes.

- Peter has fewer circles than Hazel.
- Rita has only those shapes which have three sides or more.
- Hazel has all four kinds of shapes.
- John has no triangles.



Quick Review

- Fill in the blanks.
 - The giraffe is the tallest animal. (taller, shortest, tallest)
 - The lion is heavier than a dog. (lighter, heavier)
 - 5 tens 7 ones > 57 - 10. (<, >, =)
- 24 children are in the library. 15 more children join them. How many children are there in the library now?
 Answer: 39
- 5 children gave 7 rupees each for the fete. How much money in all did they give?
 Answer: 35

CURVED LINES AND STRAIGHT LINES

Lines can be straight and curved.



These are **straight** lines.



These are **curved** lines.

Exercise 10B



1. Join the dots so that straight lines are formed.



2. Join the dots so that a curved line is formed.



3. Look at the letters of the alphabet.

Tick (✓) the letters that are formed with straight lines only and (✗) the ones that are formed with both the lines.

A



B



R



M



G



SOLID SHAPE

Many things around us have height along with length and breadth. They are called **solids**. Some common solids are shown below.

Everyday object

Solid



Name Cuboid

Cube

Cylinder

Cone

Sphere

Exercise 10C



Look at the following objects. Fill in the blanks with the name of each shape. Choose from cube, cuboid, cylinder, cone and sphere.



Sphere

cube

cone

Sphere

Cylinder



cube

cylinder

cone

cube

cuboid



Teacher's Tip

The children will gain a better understanding of the solid shapes if they are able to see the solid shapes and then correlate them with the real world examples. So, display the models of the solid shapes on your table and then explain their properties.

SLIDING AND ROLLING



The child is sliding on the slide.
Does his whole body touch the slide?

Tick (✓) the correct answer.

Yes ☐ No ☒



This man is pushing the roller.
The roller is rolling on the ground.
Does the whole surface of the roller touch the ground during its movement?

Tick (✓) the correct answer.

Yes ☒ No ☐

Activity

- Put your book on the table and give it a slight push.
Does it start moving? What will you call this movement?

Tick (✓) the correct word.

(a) Sliding ☒ (b) Rolling ☐

- Put a ball on the table and give it a slight push.
Does it start moving? What will you call this movement?

Tick (✓) the correct word.

(a) Sliding ☐ (b) Rolling ☒

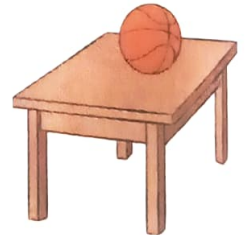
- Set in motion a top by hand. How does it move?

Tick (✓) the correct answer.

Does it slide? Yes ☐ No ☒

Does it roll? Yes ☒ No ☐

Does it roll straight? Yes ☐ No ☒



Remember

Do you observe that the top does not roll straight. It rolls around its pointed end. We say it spins on its pointed end.

1. The movement of a body depends on its shape.
2. Objects like cuboids and cubes (a matchbox and a dice) show sliding movement on pushing.

Matchbox 

Dice 

3. Cylinders and spheres (a pencil and a ball) show rolling movement on pushing.

Pencil 

Ball 

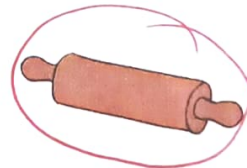
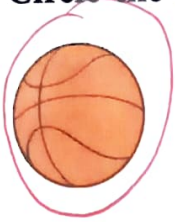
4. Objects like a cone (a top) show rolling movement around their pointed end.

Top 

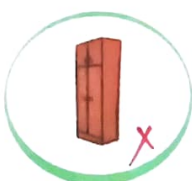
Exercise 10D



1. Circle the objects that can roll.



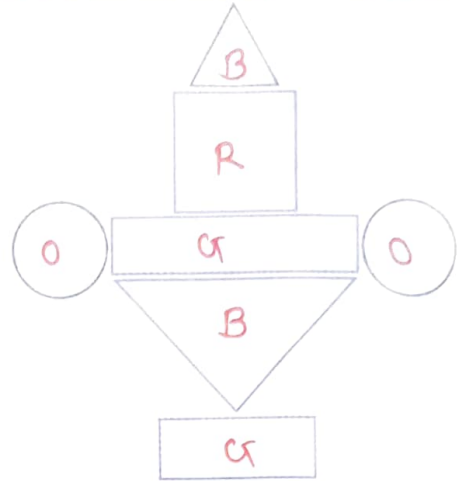
2. Tick (✓) the objects that will roll. Put a cross (✗) over the objects that will slide.



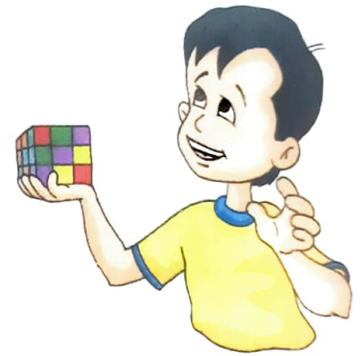
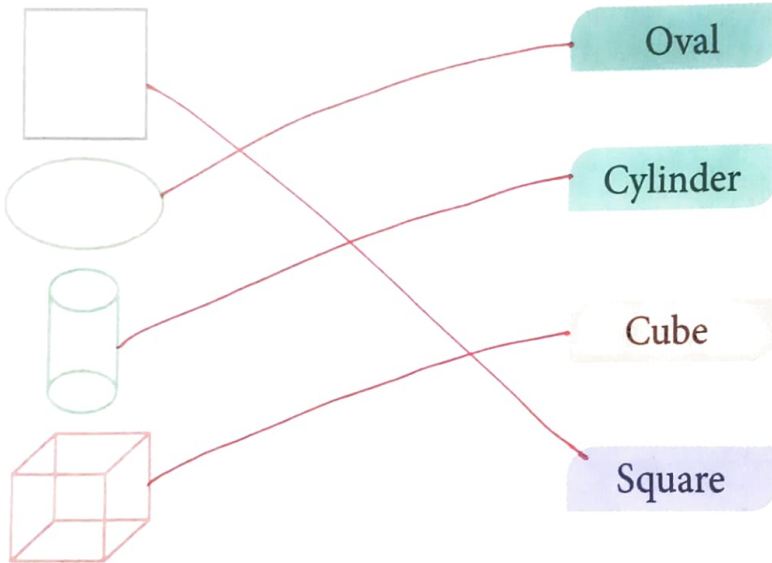
Chapter Test



1. (a) Colour the triangles **blue**.
 (b) Colour the square **red**.
 (c) Colour the rectangles **green**.
 (d) Colour the circles **orange**.



2. Match the following.



Tick (✓) the correct answer.

3. A flute  looks like a

- | | |
|--|----------|
| (a) Sphere | (b) Cube |
| ☒ (c) Cylinder | (d) Cone |

4. Which shape fits into the missing part of the square?

- | | |
|------------|--|
| (a) Square | ☒ (b) Triangle |
| (c) Circle | (d) Rectangle |



5. Name the shape of the shaded face.



- | | | | |
|------------|------------|---|--------------|
| (a) Square | (b) Circle | ☒ (c) Rectangle | (d) Triangle |
|------------|------------|---|--------------|

6. Which of the following objects cannot roll?

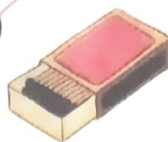
(a)



(b)



~~(c)~~



(d)



7. Which of the following pair of shapes will combine to form a circle?



P



Q



R



S

(a) P, Q

(b) R, S

~~(c) Q, S~~

(d) P, S

8. Which of the following objects cannot slide?

~~(a)~~



(b)



(c)



(d)



9. Ludo is an example of

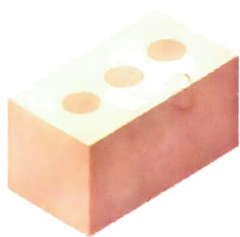
~~(a) Cube~~

(b) Square

(c) Rectangle

(d) Triangle

10. Which of the following shapes is not present in the figure given below?



(a) Cylinder



(b) Cuboid

~~(c) Cube~~



(d) Cone