



Lines



HX2L2I

➤ Look at these figures carefully –



Tell, is it straight or curved?

Pencil and arrow-

.....

Edges of the coin and bangle

.....

Ladder

.....

Chain and rope

.....

In the above figures we saw that ladder, arrow and pencil are straight whereas coin, bangle, chain and rope are curved.

Now look at the given picture and think

What is the shape of the figure in this picture? 

This is a straight line. There are arrow signs on both the sides which show that the line can be extended infinitely (to any length) on both the sides.

There are points A and B on the line in this picture, which tells the finite (certain) length of the line. A line of finite length is called the line segment.



Look –

What is the shape of the figure in the picture?

These circular turned lines are called curved lines –



Do it – Find examples of line, line segments and curved lines in your surroundings and discuss these with your friends.



Let us draw pictures with line segments –

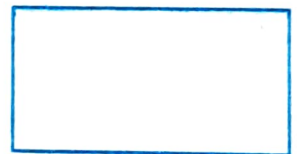
Let us make flags with kite paper. Can you tell, how many corners are there in each flag? Join all the corners of the flag of kite paper by line segments and see –



The shape made by joining all the three corners is called a triangle. It has three arms or sides and three corners.



Now put the matchbox on your copy, draw a line along its four sides with pencil. Look, which shape is formed? This is a **rectangle**. In a rectangle length is always more than breadth?



Think, which shape will we get if the length and breadth of a figure are equal?

Let us do-

Draw a plane figure with four equal sides on your notebook. This shape is called a **square**.



Place one rupee coin on your notebook. Move pencil around it. Remove the coin and tell which figure is formed? It is a **circle**.



We have Learnt

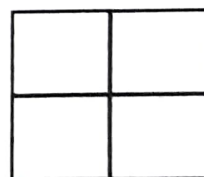
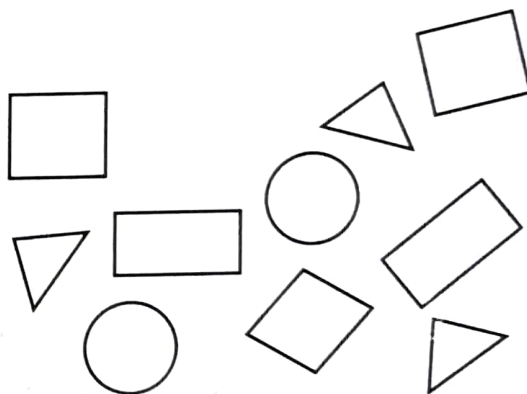


- Any straight line is called a line.
- Length of the line is infinite and length of the line segment is finite.
- The line that turns in circular manner is called a curved line.

Exercise

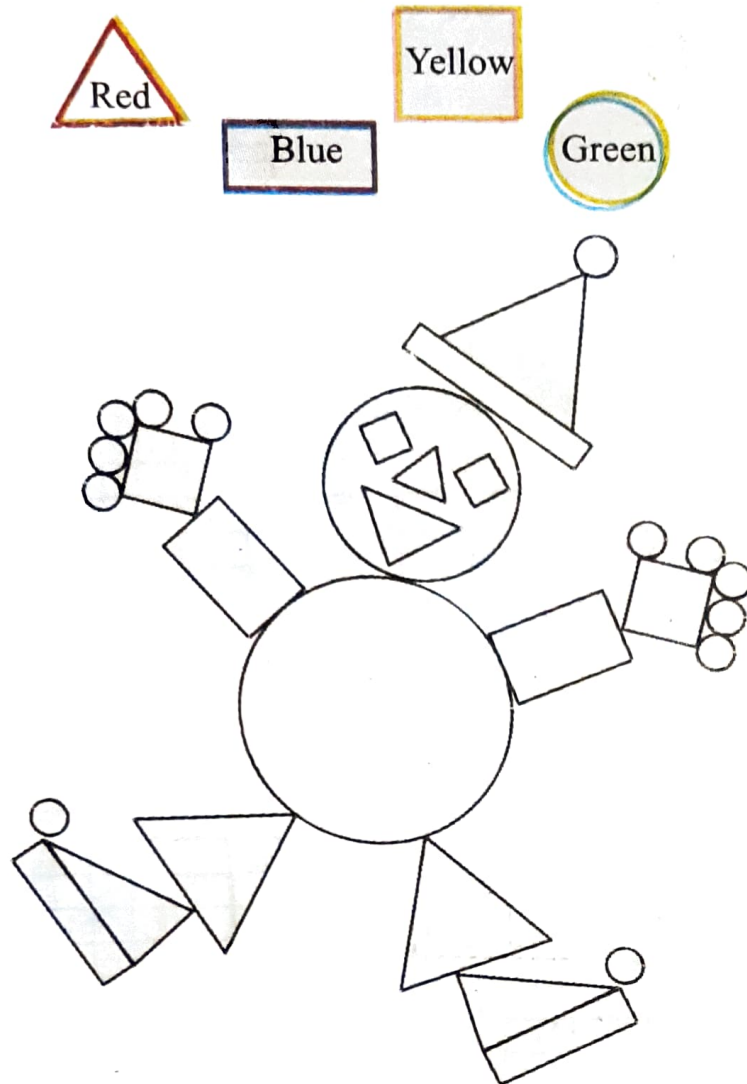


1. See the figures and tell –
 How many triangles are there?
 How many circles are there?
 How many squares are there?
 How many rectangles are there?
2. How many squares are there in the figure?
3. Draw and colour the figures of triangle, rectangle, square and circle.



- Ask the students to draw straight lines with the help of scale and curved lines either with free hand or with the help of objects available in their surroundings.

4- In the game of shapes given below, fill colour according to them



5. Draw figures of your choice by joining the dots given below –

