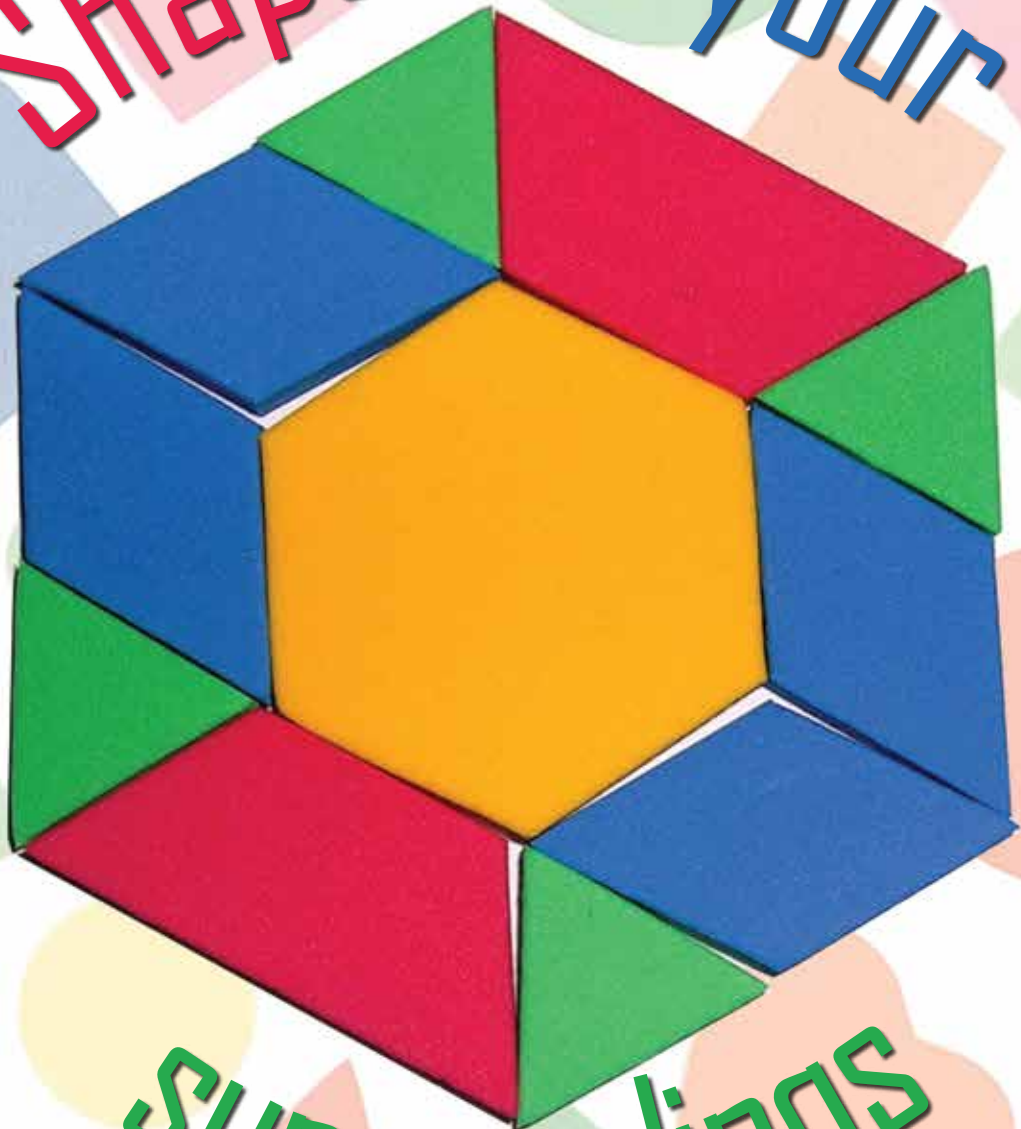


# Shapes in your



# surroundings

## Shapes in our daily life

- i. **Circular route:** In Ahmedabad, the transport corporation uses the “circular route”. Can you find out if your city has similar routes and study the route with the help of your parents?

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- ii. **Ring road:** Most cities have ring roads. Study the ring road surrounding your city and write briefly why you think it has been given that name.

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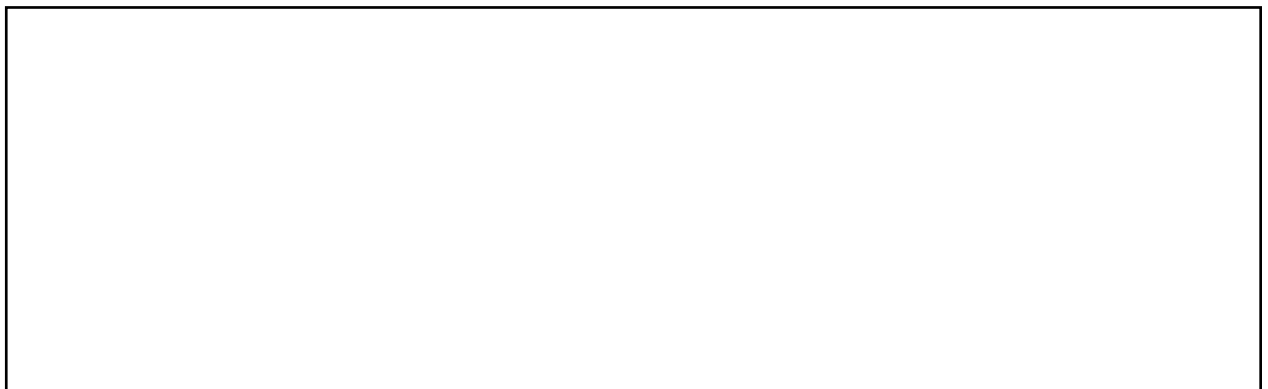
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- iii. **Bermuda triangle:** Research using the internet and other resources, and explain the origin of the name, “Bermuda triangle”. And why do you think it is called a triangle. Support your explanation with a picture/drawing.



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iv. **Golden quadrilateral:** Research on the word “Golden quadrilateral” in the context of our country and write about it briefly here along with the diagram/picture.



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**In the table given below measure the dimensions and write what type of quadrilateral it is.**

Object	Length (l)	Breadth (b)	Type
A tile in my home			
Newspaper			
A page in my notebook			
My passport size photograph			
My family photograph			
A tissue paper			
A postal stamp			
My handkerchief			
Geometry box			
Lunch box			

**Traffic signal audit:** In the table below different traffic signs are given. Look at them and complete a shape audit. For example an arrow contains a triangle and a straight line.

Sr. No.	Traffic Signal	Signal Indicator	Shape Audit
1	Stop		
2	Go		
3	No parking		
4	Right hairpin bend		
5	No entry		
6	Bump ahead		
7	Compulsory ahead or right turn		
8	Compulsory turn left		
9	Horn prohibited		
10	Speed limit		
11	Overtaking prohibited		
12	No stop or standing		
13	Trucks prohibited		
14	Height limit		
15	School ahead		

**Kite fun:** We all love flying kites. Especially during sankranti we see a lot of kites in the sky. A kite is a quadrilateral. It is also known as a “deltoid”. Put your research skills to test and write the geometrical properties of kites along with a drawing.



Geometrical properties of kites	Geometrical drawing

Now, with your geometrical knowledge of kites, make kites and enjoy flying them, do not forget to use your compass box kit for measuring the dimensions for making air worthy kites.

**The perimeter/circumference of a circle is calculated by using the formula: circumference =  $2 \times (\pi = 3.14) \times r$ , where  $r$  is the radius of the circle. Now answer the following questions:**

i. If a circle of radius 4 cm is cut from a point and stretched into a line, what will be the length of the line?

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ii. If a wire of 12 cm is rolled into a circle, what would be the circumference of the circle?

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iii. If a wire of 20 cm is rolled into a circle, what would be the circumference of the semi-circle?

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Let us try our musical/linguistic intelligence with shapes: Write a poem/song on the following shapes:

i. Circle:

All the points equidistant from a point, they join together to make a point, "together we can make a circle".

ii. Rectangle:

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iii. Triangle:

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iv. Kite:

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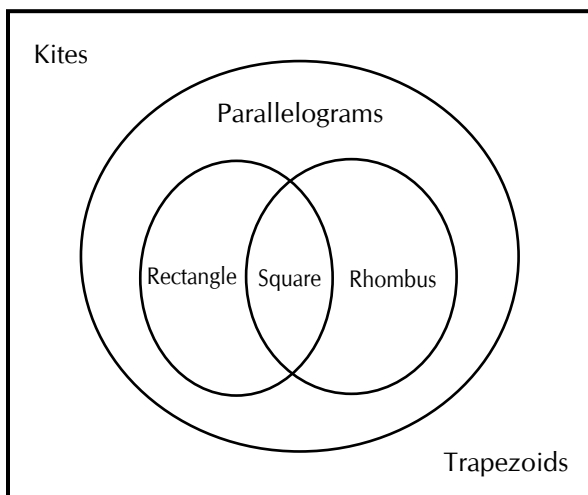
v. Rhombus:

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Let us learn date interpretation using geometrical shapes from the picture below. Write down all the information you can read from the picture. For example, one information that the picture gives is that rhombi, square, rectangle, trapezoids and kites all belonging to quadrilaterals.



Let us see how many facts you can interpret from the diagram:

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All of you love films, don't you? Have you ever wondered why all the film screens are rectangular in shape? Research and write your answer here briefly. You can take the help of your art, physics, and maths teachers:




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Every country has a national flag, you will have fun doing this activity as you learn geography, civics, and maths at the same time. Complete the following table:

Write the names of any 10 countries of your choice	National flag of the country (you can draw and colour or paste)	Shapes present in the flag
My observations		

**Copy & Use**

**Communication and shape:** We use the word 'shape' in our everyday language. For instance, the phrase, "he is in a bad shape." Can you think of some meaningful sentences using the words shape, triangle, quadrilateral, circle etc.?

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**Travel bags:** There are several varieties of travel bags available these days, however the most common shape they come in is rectangular. Let us see if we can design circular and triangular bags. You can also choose any other primary shape like a rhombus or trapezium to design your bag.

My bag (sample 1)	My bag (sample 2)
External look	External look
Internal look	Internal look

**Watches, clocks, and jewellery** are available in every shape. Visit a jewellery shop and clock/watch shop along with your parents, observe all the exhibits, look at their shapes and write a reflective note.

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