LESSON 10 Geometrical Figures

Closed and open figures

Look at the given figures carefully.



Now take a pencil and trace out the figures. Is there a difference in some of these? If so, what is the difference?

Some of the figures shown are such that when we trace them we reach at the point from where we started with out lifting our pencil these are called closed figures.

However there are some figures in which you cannot reach the place you started from without lifting your pencil. Such figures are called open figures.

Figure	Open/Closed	Figure	Open/Closed

Now say whether the following figures are closed or open?

134



Make some closed figures

Make some open figures





Match the figures with their names

Circle

Quadrilateral

Triangle

Look at the picture given below and count the number of circles, quadrilaterals and triangles and write the number down:



Are circle, quadrilaterals and triangles closed figures?

136



Fill the pictures given below with the colours as shown



Take different shapes and made more pictures like these and colour them.







Fill in your favourite colours to this figure



Different types of quadilaterals



Several quadrilaterals have been drawn above. In all these opposite sides are equal and all angles are right angles. Such quaderilaterals are called rectangles.

A square is a particular type of rectangle

138 **Do this**

Collect some match sticks. Try making squares and rectangles on the floor using them.One example of each is shown below:



Collect the following items along with your friends: Match box, Shoe box, Cover of a bottle, Glass, Coin, Bangle, Rubber, Set squares from your compass box, Duster etc.

One by one place the item on a paper and run your pencils along the sides of it. You will get quadrilaterals, circles and triangles.





Your school may have a geo board (a wooden board with nails on it at equal intervals). Take this and using thread or rubber bands make the different figures. Geometrical Figures



Joint the dots given below and make Triangles, squares and rectangles of different sizes.

•	•	•	•	•	•	•	•	•	•	•	•	•	•
• /		•	•	•	•	•	•	•	•	•	•	•	•
\checkmark	•	>	•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•	•	•	•
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•	•	•	•	•	•	•	•	•	•	•	•	•	•
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•	•	•	•	•	•	•	•	•	•	•	•	•	•

Continue the pattern.



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140



Look and learn



Corners is called vertex

Edge is called side

Now encircle the vertex of these figures.



Now put a tick marks (\checkmark) on the sides of these figures. 1



Draw diagonals of these figures.







Complete the table :

figures	No. of	No. of	No. of
	vertices (corners)	sides (edges)	diagonals

