

Students will be able to understand symmetry in 2-D shapes by identifying correct symmetrical halves

40- 50 min

PRE REQUISITES:

G2.65 Know how to identify shapes that have equal parts

TLM



Sun shaped, a star, a tree cut outs

MISCONCEPTIONS

None



KEY VOCABULARY

None

PLAY



Halving 2D shapes

Tell the students Vanuri and Manuri were sisters who wanted to divide a chocolate bar equally between them

QUESTION

How would you break a chocolate bar in 2 equal parts

Continue the narration and tell the students that the sisters found it difficult to divide the chocolate bars

It was difficult because the chocolates were in different shapes

Show the sun-shaped, star-shaped and tree-shaped cutouts to the students

Ask if the chocolates came in these shapes how would they divide into 2 equal parts

Call some students to try and divide the cut-outs into two equal parts

QUESTION

What are the things that you share with your siblings & friends. How do you divide them?

PROCESS



Drawing and folding symmetrical shapes

Fold a rectangular sheet into half. Unfold and say that the rectangle has two similar halves

Explain that some shapes when divided into 2 halves give us two similar looking halves

Draw alphabet X on the blackboard and tell the students that the letter can be divided into two similar looking parts

Draw a line through the center of the alphabet show & tell that left side is similar to right side

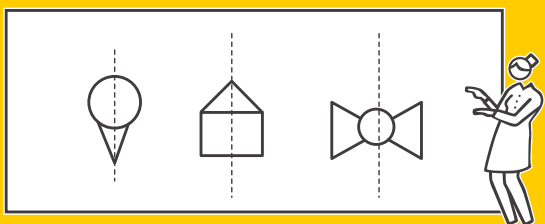
Point out that although the halves of X face different direction they are similar in shape and size

Explain that not all shapes can be divided into similar halves. Write alphabet L. Draw a dotted line through it

Tell that the left side of the letter is not similar to the right side & alphabet cannot be divided in similar parts

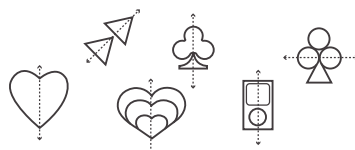
QUESTION: How do you know if a shape has been divided into two similar parts?

PRACTICE



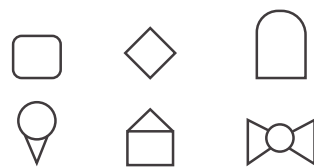
Draw the pictures on the blackboard and ask the students to divide them into mirror halves

Help the students solve question 4 from the worksheet. Ask the students to find out which shape is not divided into similar halves

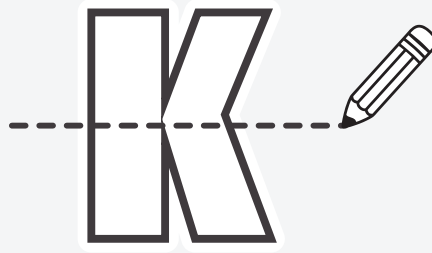


Encourage the students to draw a few dotted lines in different orientations to check if dividing the shape into 2 similar halves is possible

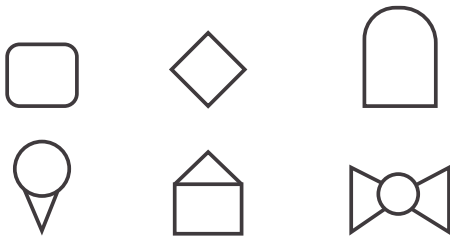
Help the students solve question 3 from the worksheet. Ask the students if the given shapes can be divided into similar halves



- ① SOLVED EXAMPLE : Can alphabet "K" be divided into 2 similar halves?



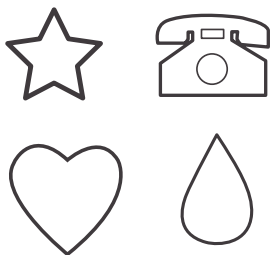
- ② Divide these shapes into equal halves



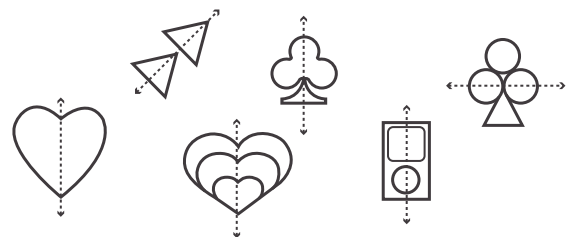
- ③ Divide this picture of a butterfly into two equal parts



- ④ Color the objects that can be divided into 2 parts that look similar



- ⑤ Check if the two sides of these pictures look the same. Which picture is not divided into similar looking parts?



- ⑥ Many insects and parts of the plant around us can be divided into two similar halves. Two examples are shown here. Can you think of any more examples? Draw and show

