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India's Number 1 Education App

## MATHS

## NCERT - NCERT

## MATHEMATICS(ENGLISH)

## SYMMETRY

Exercise 133

1. In each figure alongside, a letter of the alphabet is shown along with a vertical line.

Take the mirror image of the letter in the given line. Find which letters look the same after reflection (i.e. which letters look the same in the image) and which do not. Can you guess why

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2. Find the number of lines of symmetry in each of the following shapes.How will you check your answers?

## Exercise 131

1. In the figure, I is the line of symmetry. Draw
the image of the triangle and complete the diagram so that it becomes symmetric.

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2. In the figure, I is the line of symmetry.

Complete the diagram to make it symmetric
3. For the given figure, which one is the mirror line, $l_{1}$ or $l_{2}$ ?

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4. Identify the shapes given below. Check whether they are symmetric or not. Draw the
line of symmetry as well.

(a)

(d)

(b)

(e)

(c)

(f)

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5. List any four symmetrical objects from your home or school

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1. Given here are figures of a few folded sheets and designs drawn about the fold. In each case, draw a rough diagram of the complete figure that would be seen when the design is cut off

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2. Consider the letters of English alphabets, A
to Z. List among themthe letters which have(a)
vertical lines of symmetry (like A)(b) horizontal
lines of symmetry (like $B$ )(c) no lines of symmetry (like Q)

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3. Trace each figure and draw the lines of
symmetry, if any:


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4. Can you draw a triangle which has(a) exactly one line of symmetry?(b) exactly two lines of symmetry?(c) exactly three lines of symmetry?
(d) no lines of symmetry?Sketch a rough figure in each case

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5. Copy the triangle in each of the following figures on squared paper. In each case, draw the line(s) of symmetry, if any and identify the
type of triangle. (Some of you may like to trace the figures and try paper-folding first!)

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6. Find the number of lines of symmety for each of the following shapes:


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