



MATHS

NCERT - NCERT

MATHEMATICS(Hinglish)

SYMMETRY

Exercise 13.3

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

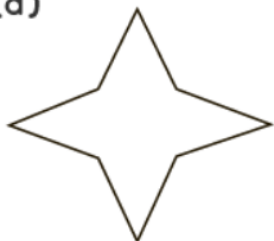


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2. Find the number of lines of symmetry in each of the following shapes. How will you

check your answers?

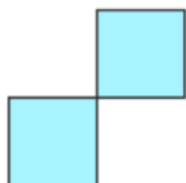
(a)



(b)



(c)



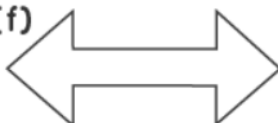
(d)



(e)



(f)



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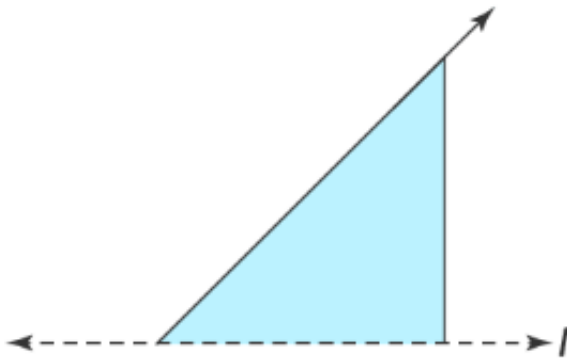
Exercise 13 1

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



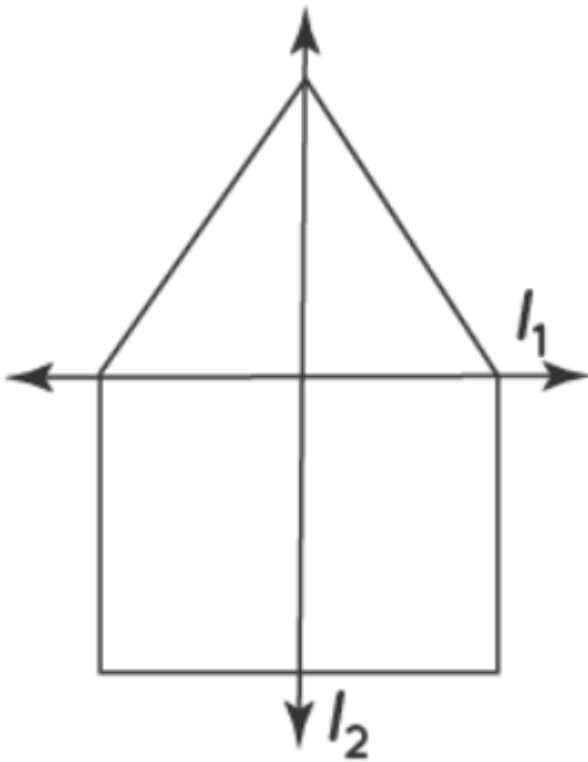
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2. In the figure, l is the line of symmetry. Complete the diagram to make it symmetric



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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.

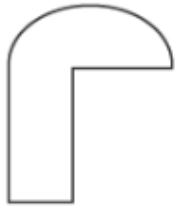
(a)



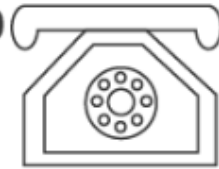
(b)



(c)



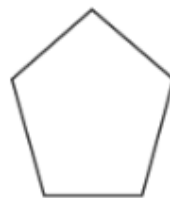
(d)



(e)



(f)



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

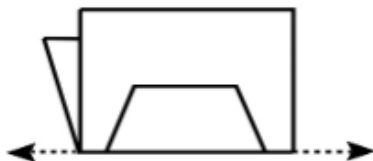
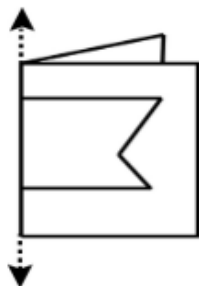


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Exercise 13 2

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

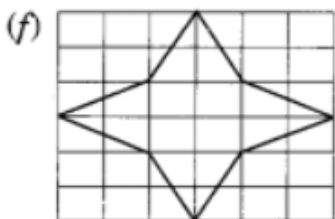
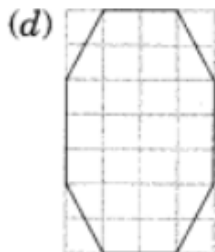
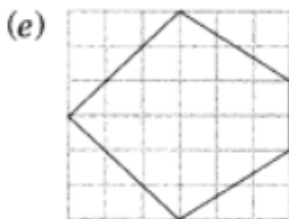
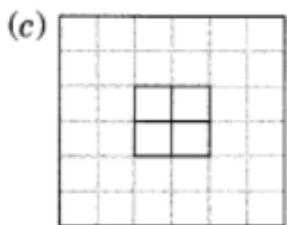
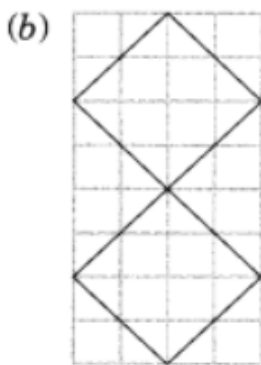
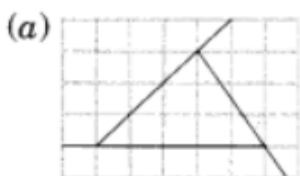


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2. Consider the letters of English alphabets, A to Z. List among them the letters which have (a) vertical lines of symmetry (like A) (b) horizontal lines of symmetry (like B) (c) no lines of symmetry (like Q)



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



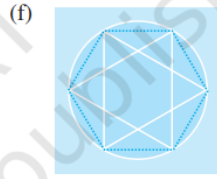
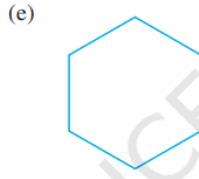
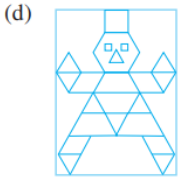
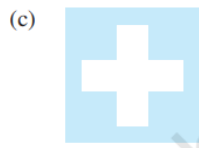
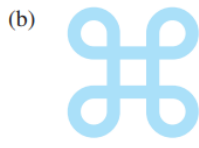
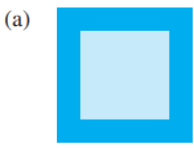
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5. Copy the triangle in each of the following figures on squared paper. In each case, draw the line(s) of symmetry, if any and identify the type of triangle. (Some of you may like to trace the figures and try paper-folding first!)



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



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