



# MATHS

## BOOKS - SUBHASH PUBLICATION

### SYMMETRY

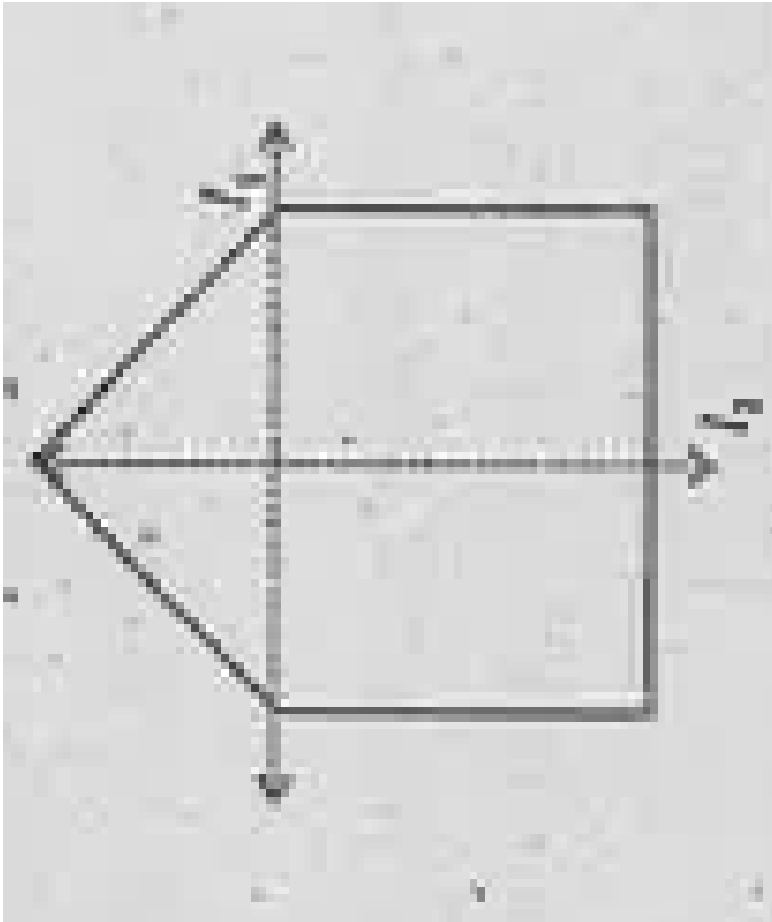
#### Exercise

1. List any four Symmetrical objects from your home or school.



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2. For the given figure, which one is the mirror line,  $l_1$  or  $l_2$  ?



**3.** Identify the shapes given below. Check whether they are symmetric or not. Draw the

line of symmetry as well. (a)



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4. Identify the shapes given below. Check whether they are symmetric or not. Draw the

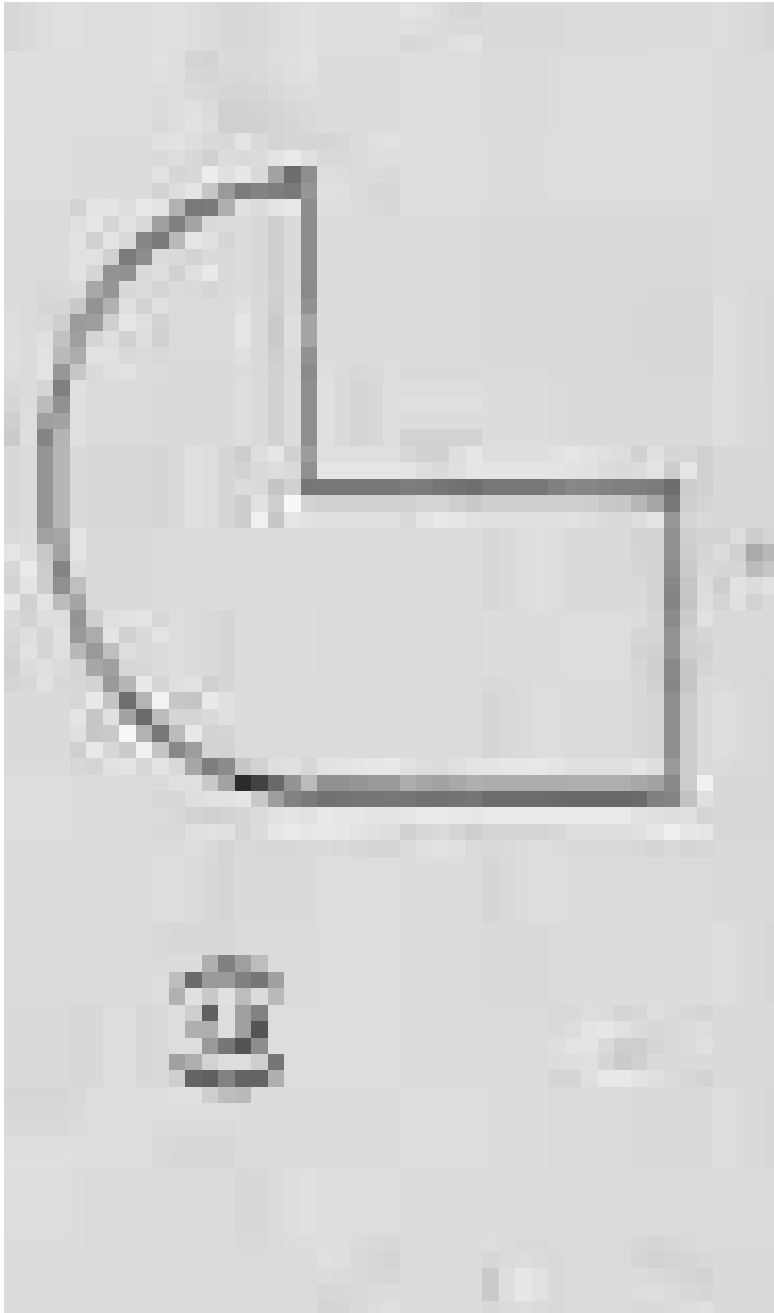
line of symmetry as well. (b)



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5. Identify the shapes given below. Check whether they are symmetric or not. Draw the

line of symmetry as well. (c)







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**6.** Identify the shapes given below. Check whether they are symmetric or not. Draw the

line of symmetry as well. (d)



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7. Identify the shapes given below. Check whether they are symmetric or not. Draw the

line of symmetry as well. (e)



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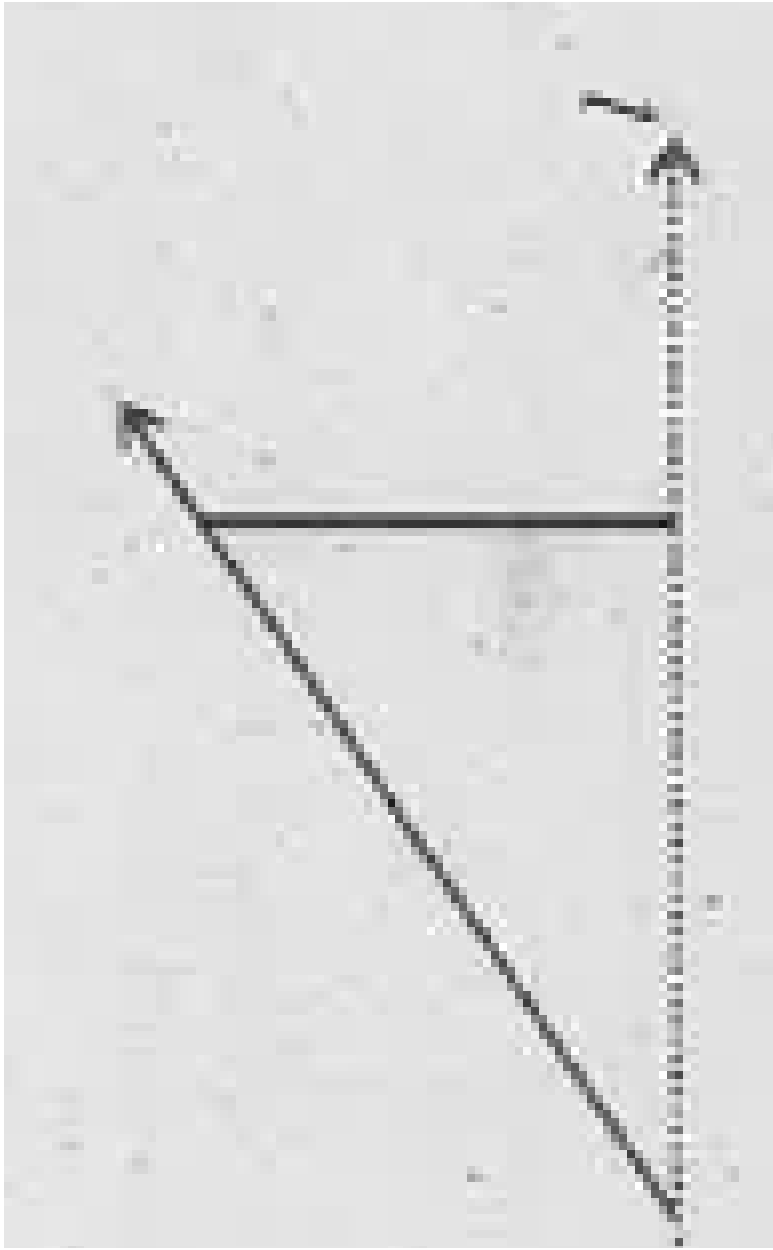
**8.** Identify the shapes given below. Check whether they are symmetric or not. Draw the

line of symmetry as well. (f)



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



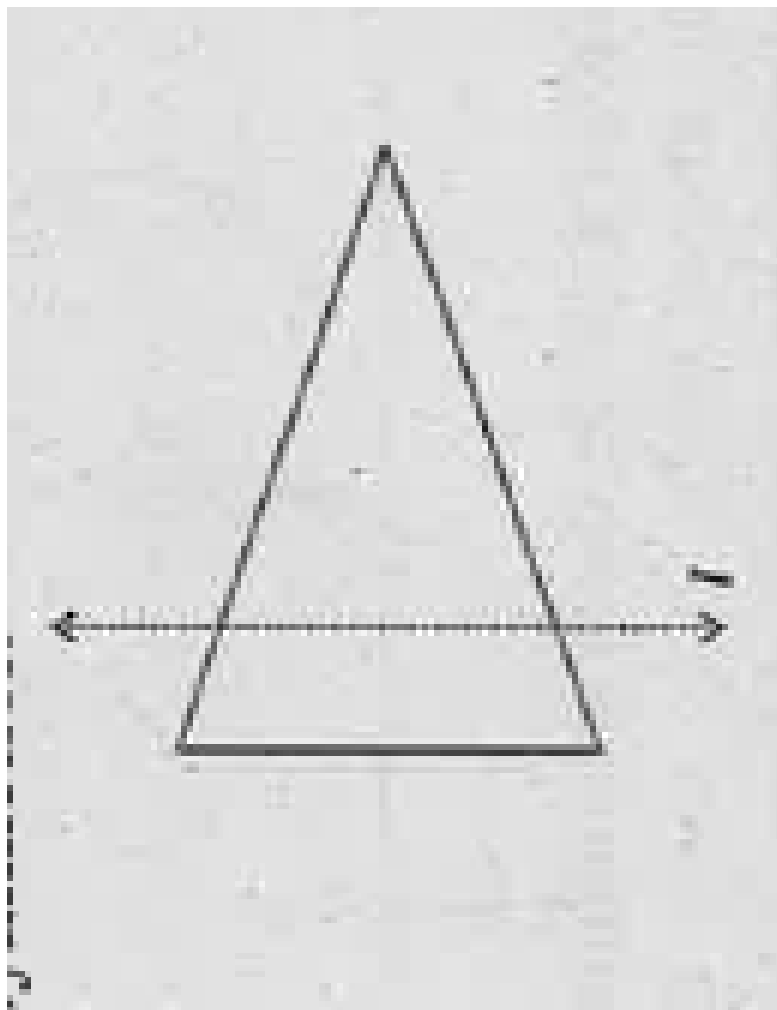


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**10.** In the figure,  $l$  is the line of symmetry. Draw the image of triangle and complete the

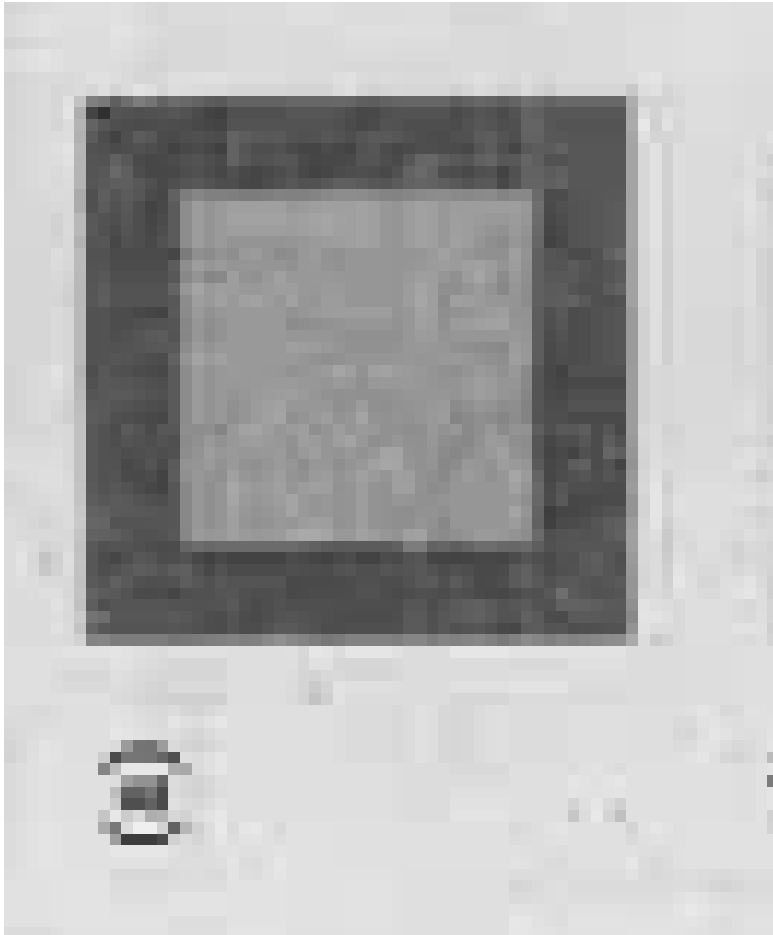


diagram so that it becomes symmetric.



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11. Find the number of lines of symmetry for each of the following shapes: (a)



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**12.** Find the number of lines of symmetry for each of the following shapes: (b)





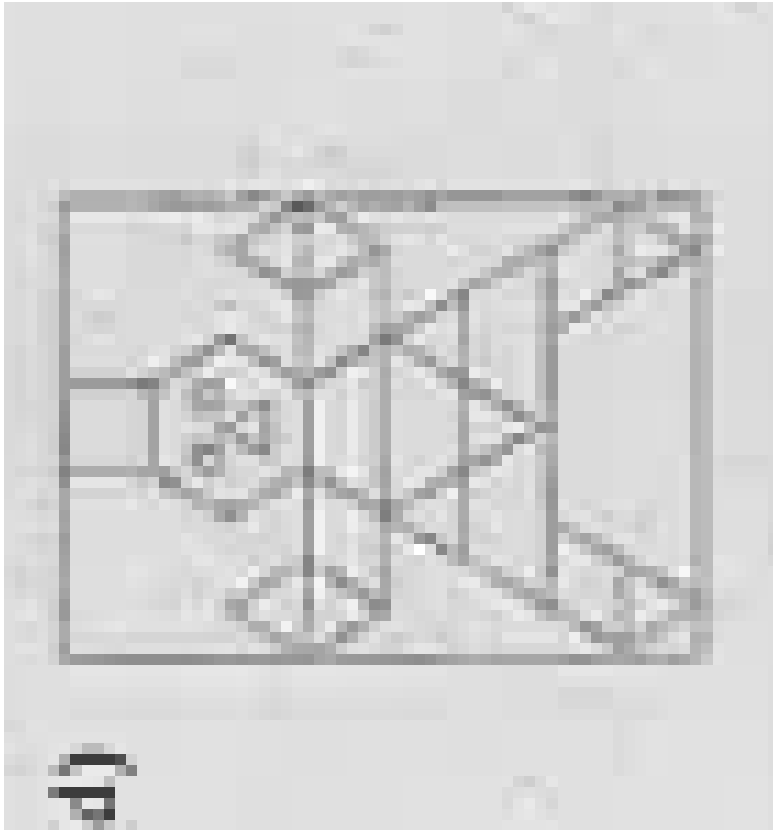
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**13.** Find the number of lines of symmetry for each of the following shapes: (c)



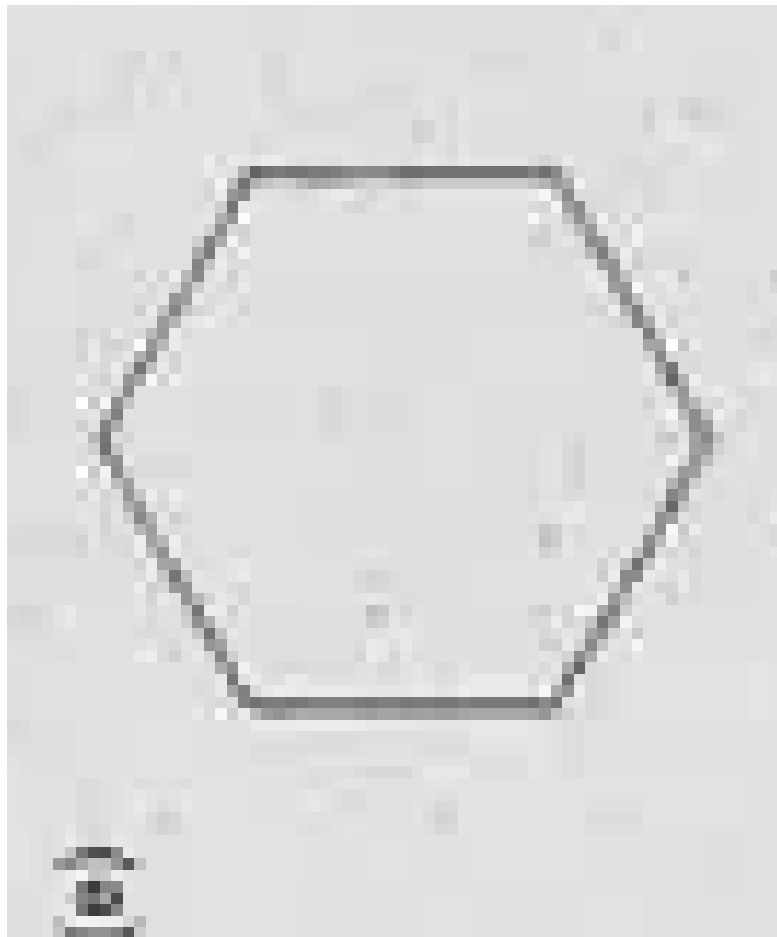
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14. Find the number of lines of symmetry for each of the following shapes: (d)



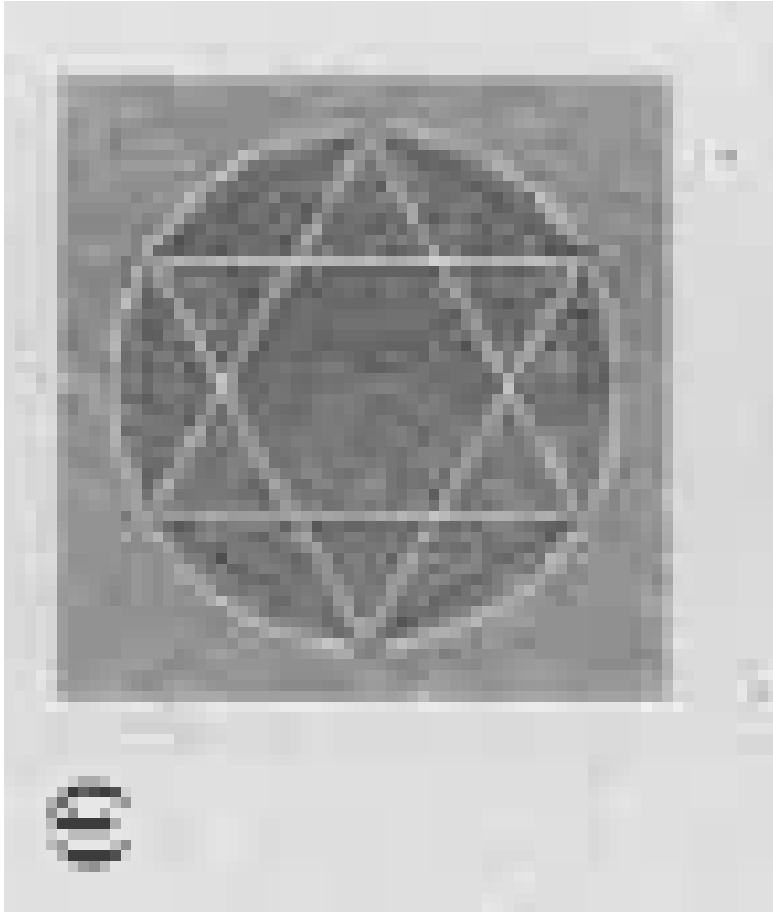
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15. Find the number of lines of symmetry for each of the following shapes: (e)



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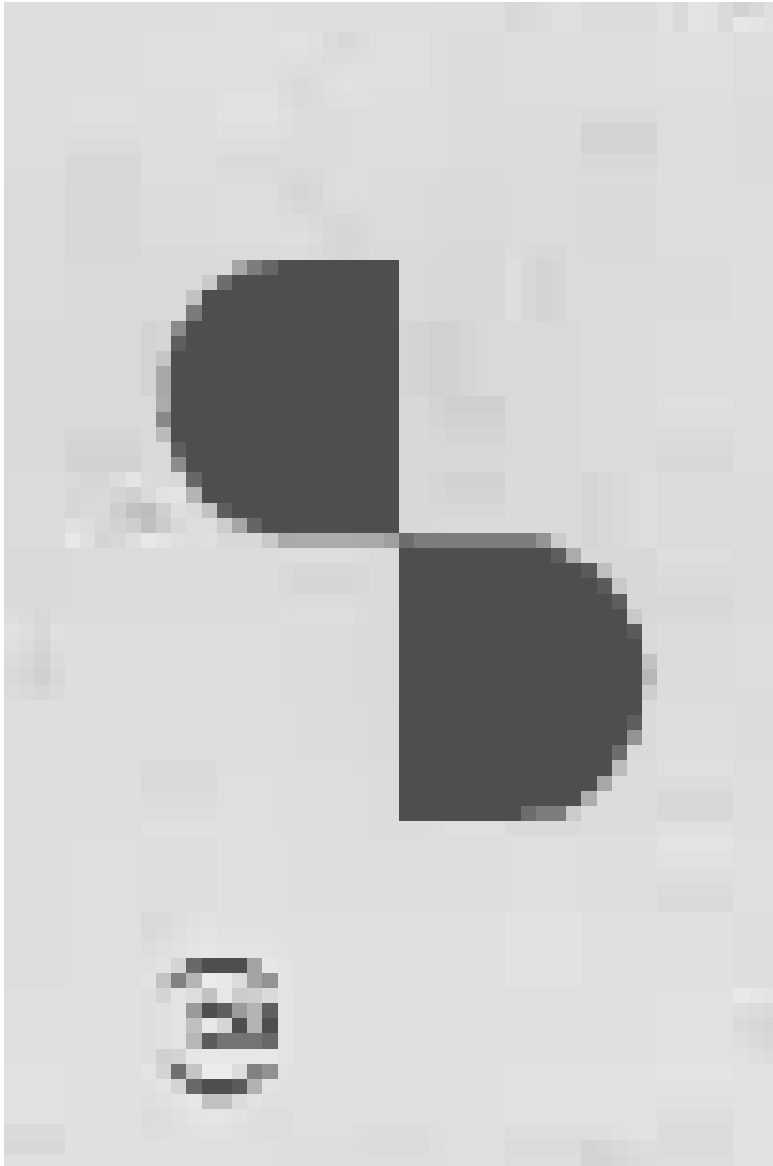
16. Find the number of lines of symmetry for each of the following shapes: (f)



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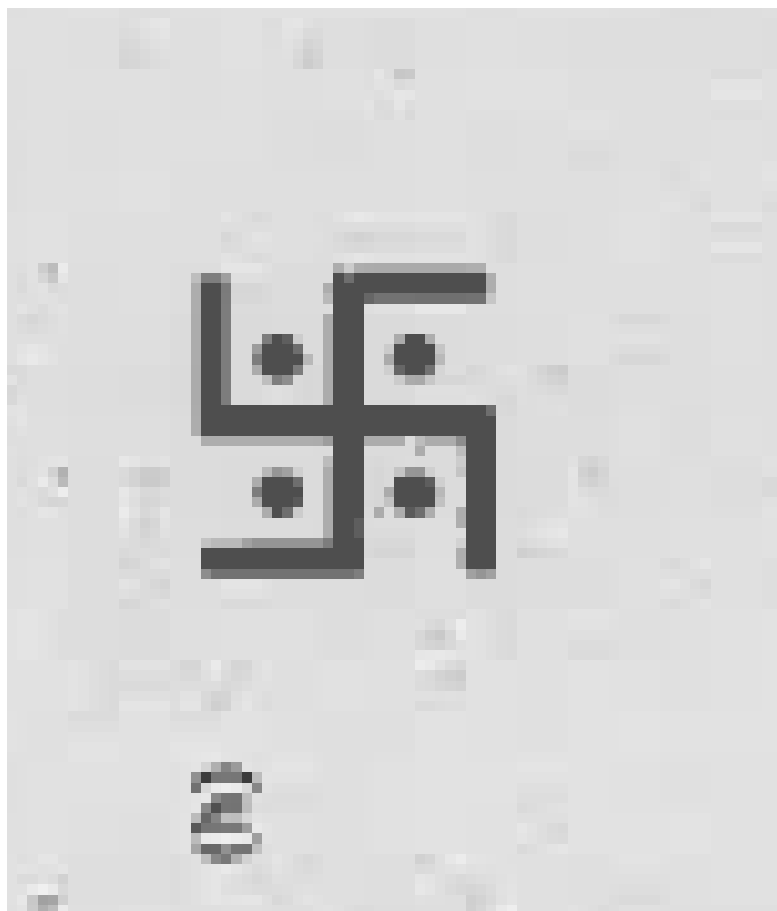
17. Find the number of lines of symmetry for each of the following shapes: (g)





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**18.** Find the number of lines of symmetry for each of the following shapes: (h)





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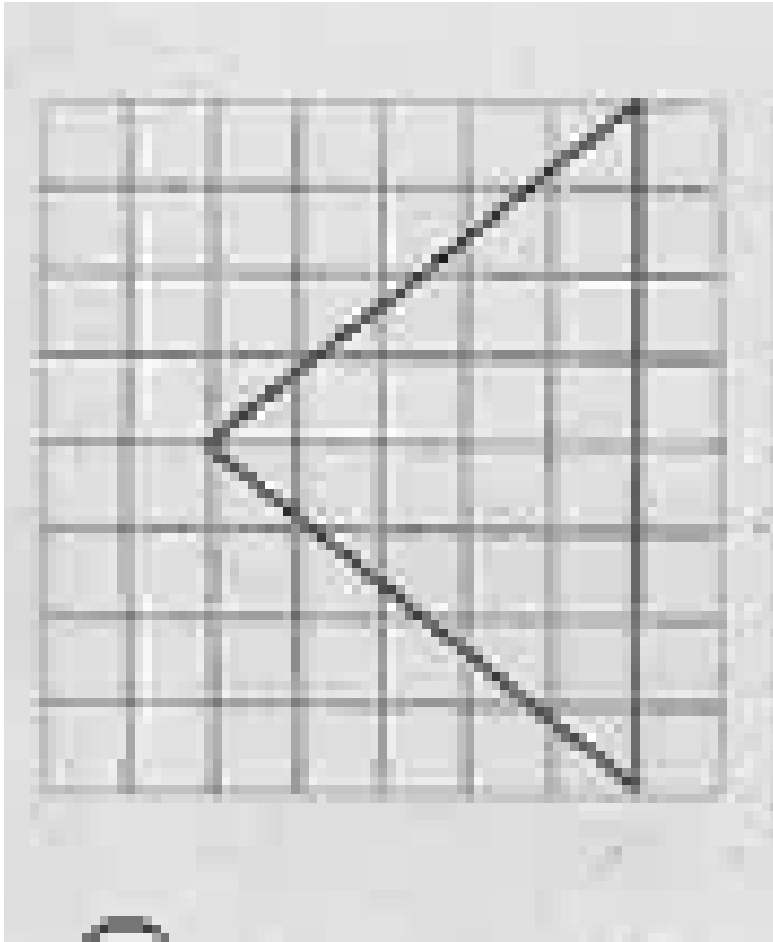
**19.** Find the number of lines of symmetry for each of the following shapes: (i)



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**20.** 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

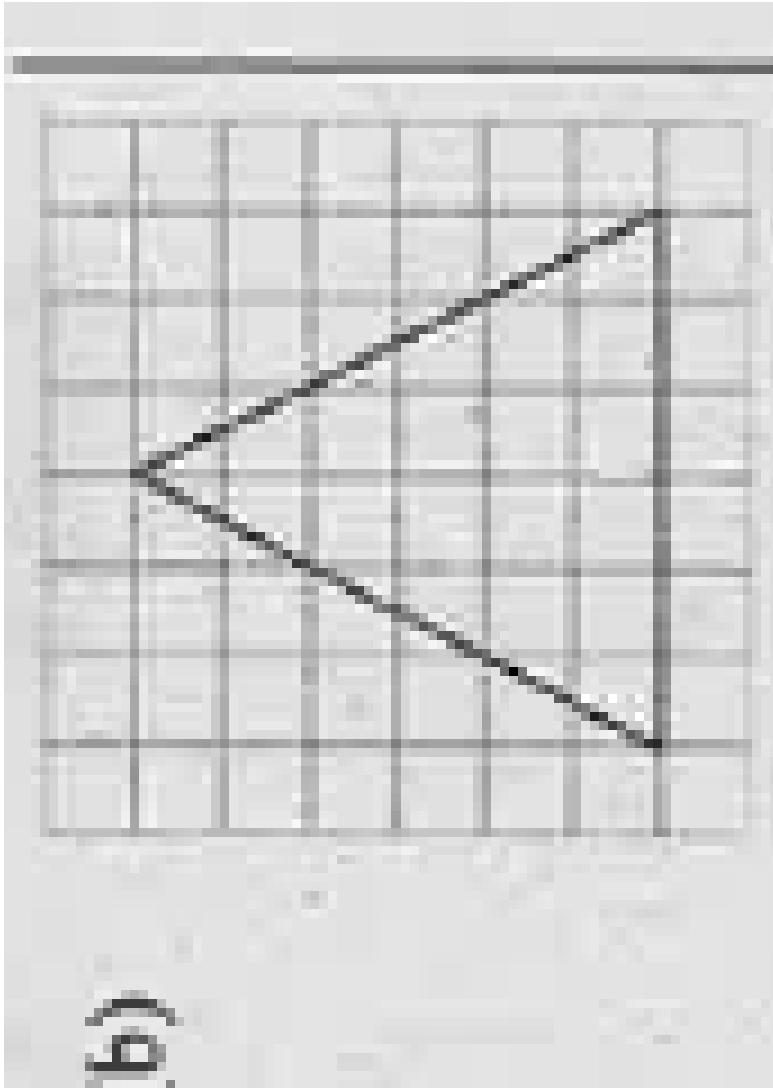
the figures and try paper-folding first!) (a)



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**21.** 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!) (b)




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22. Complete the following table.

Shape	Rough figure	Number of lines of symmetry
Equilateral triangle		3
Square		
Rectangle		
Isosceles triangle		
Rhombus		
Circle		



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**23.** Can you draw a triangle which has (a) exactly one line of symmetry? Sketch a rough figure in each case.



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**24.** Can you draw a triangle which has (b) exactly two line of symmetry? Sketch a rough

figure in each case.



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**25.** Can you draw a triangle which has (c) exactly three line of symmetry? Sketch a rough figure in each case.



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**26.** Can you draw a triangle which has (d) no line of symmetry? Sketch a rough figure in

each case.



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**27.** On a squared paper, sketch the following:

(a) A triangle with a horizontal line of symmetry but no vertical line of symmetry.



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**28.** On a squared paper, sketch the following:

(b) A quadrilateral with both horizontal and

vertical lines of symmetry. (Hint : It will be if you first draw the lines of symmetry and then complete the figures.)



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**29.** On a squared paper, sketch the following:  
(c) A quadrilateral with a horizontal line of symmetry but no vertical line of symmetry.



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**30.** On a squared paper, sketch the following:

(d) A hexagon with exactly two lines of symmetry. (Hint : It will be if you first draw the lines of symmetry and then complete the figures.)



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**31.** On a squared paper, sketch the following:

(e) A hexagon with six lines of symmetry. (Hint

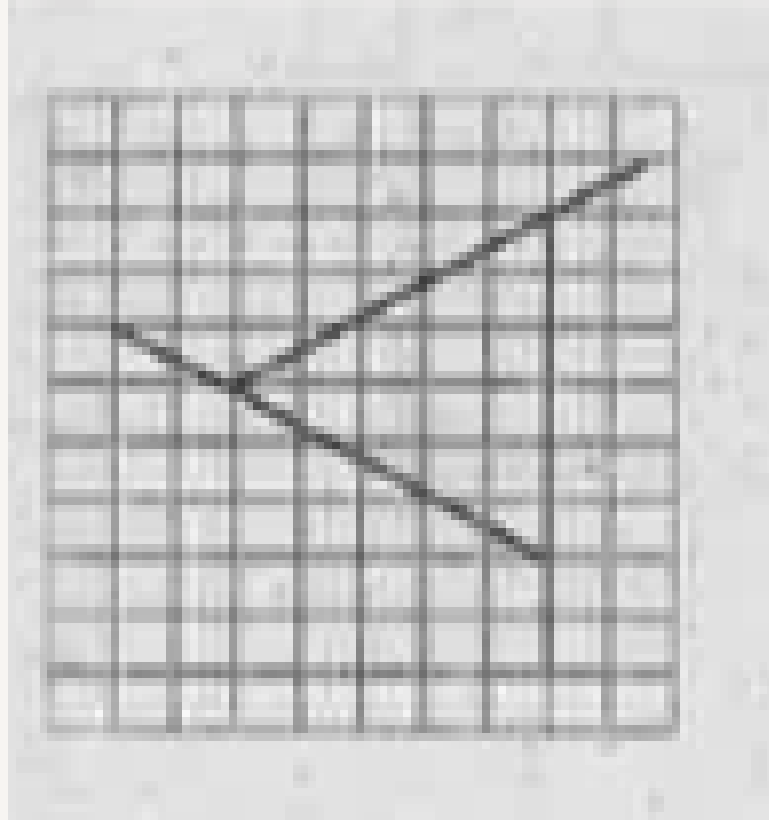
: It will be if you first draw the lines of symmetry and then complete the figures.)



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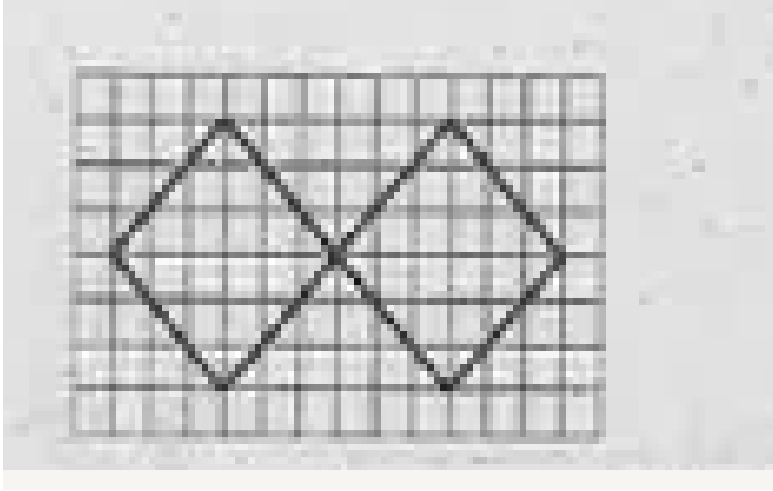
**32.** Trace each figure and draw lines of symmetry, if any: (a)





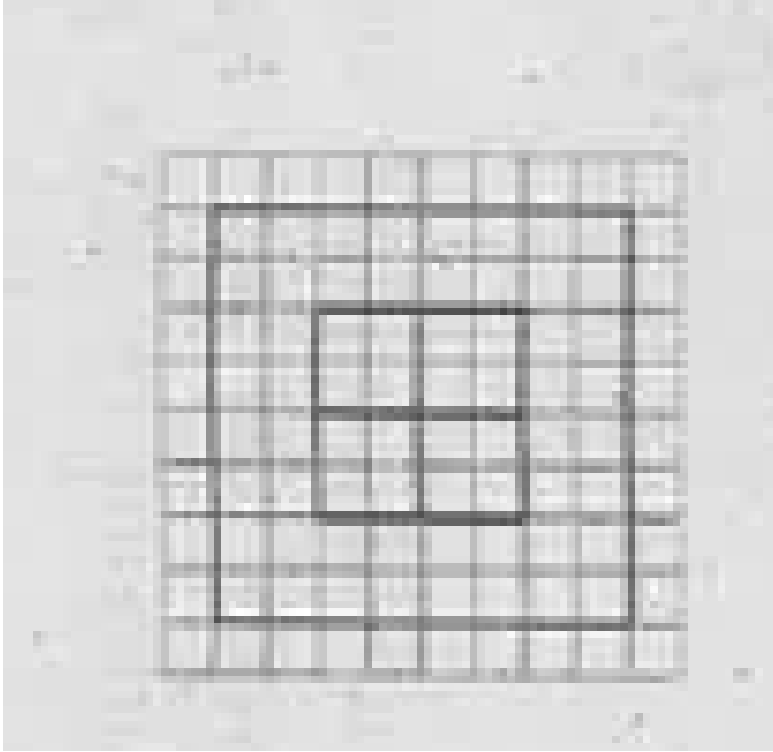
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**33.** Trace each figure and draw lines of symmetry, if any: (b)



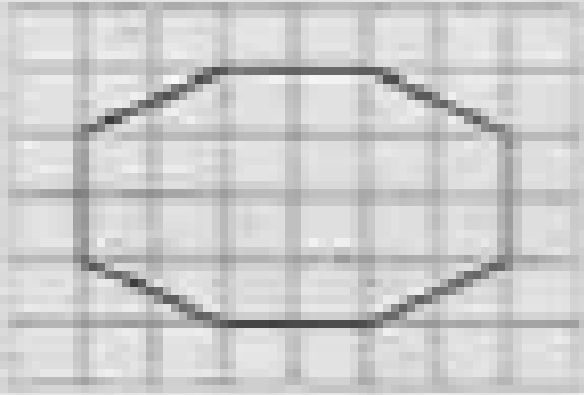
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**34.** Trace each figure and draw lines of symmetry, if any: (c)



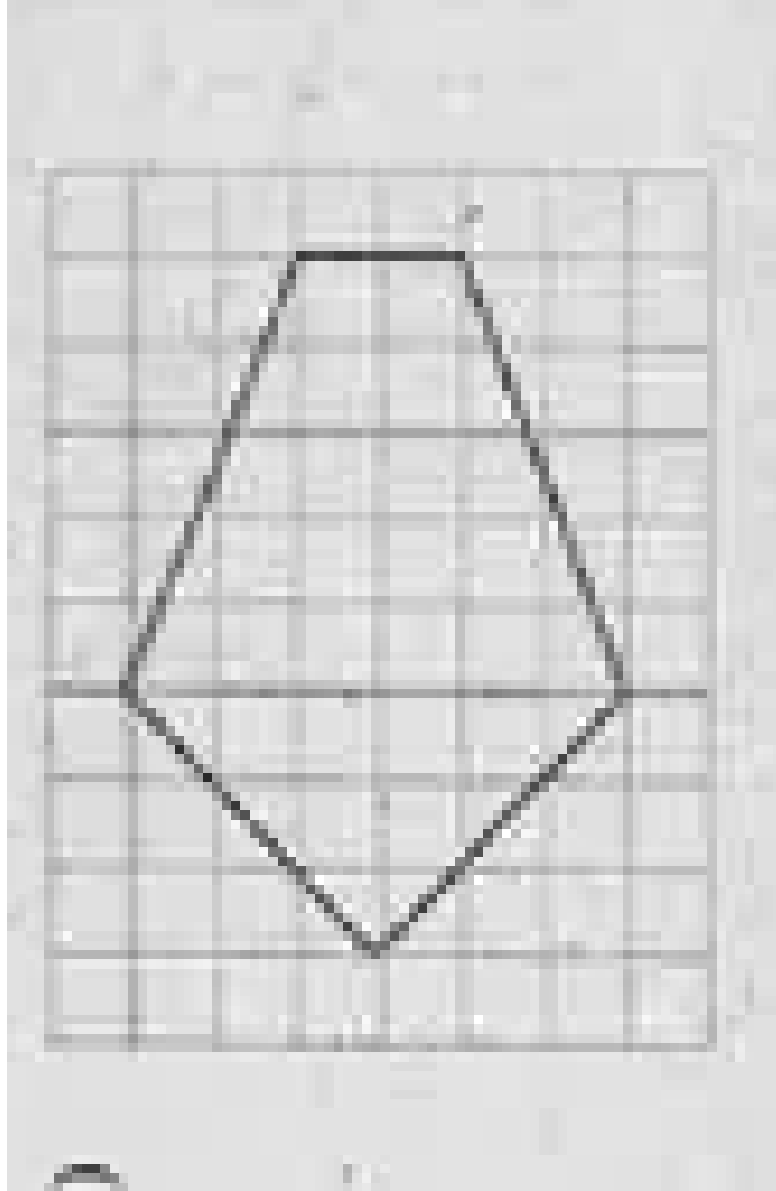
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**35.** Trace each figure and draw lines of symmetry, if any: (d)



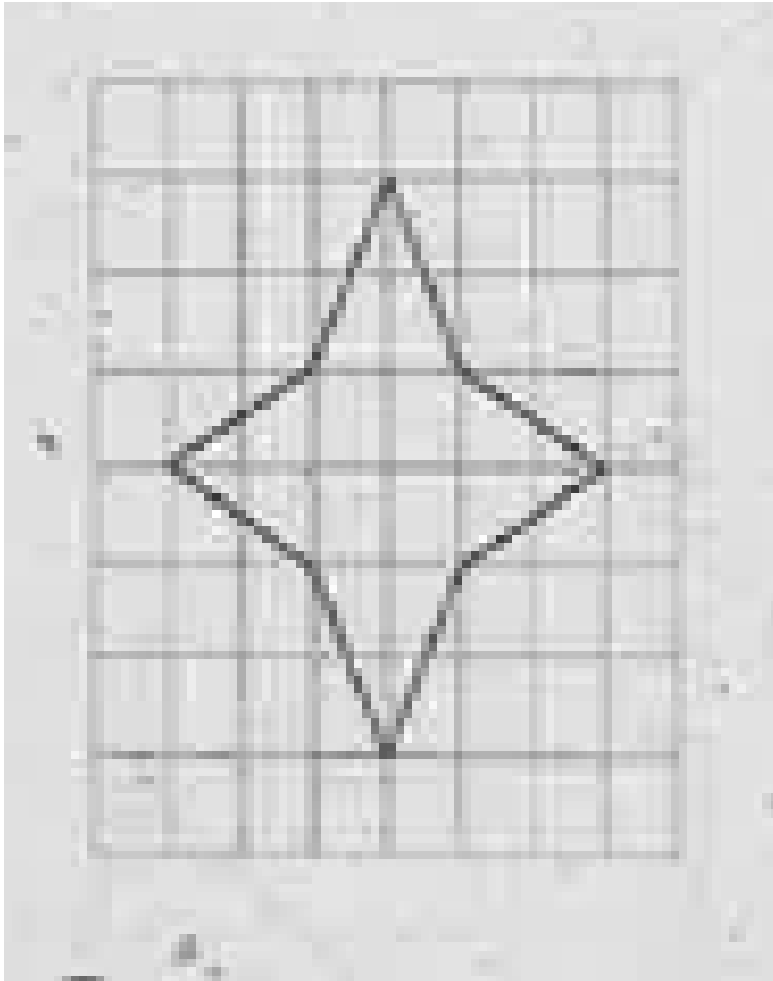
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**36.** Trace each figure and draw lines of symmetry, if any: (e)



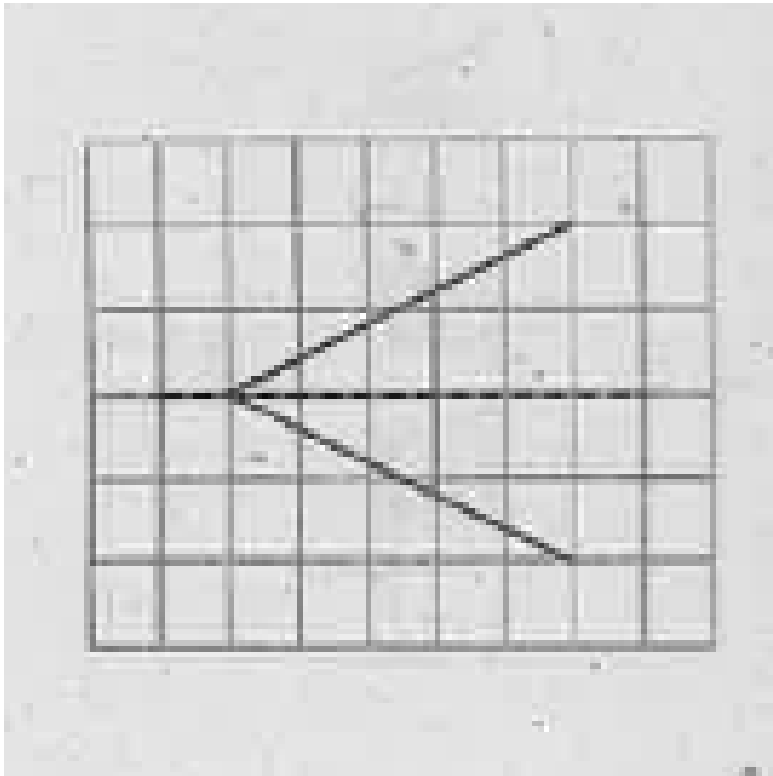
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37. Trace each figure and draw lines of symmetry, if any: (f)



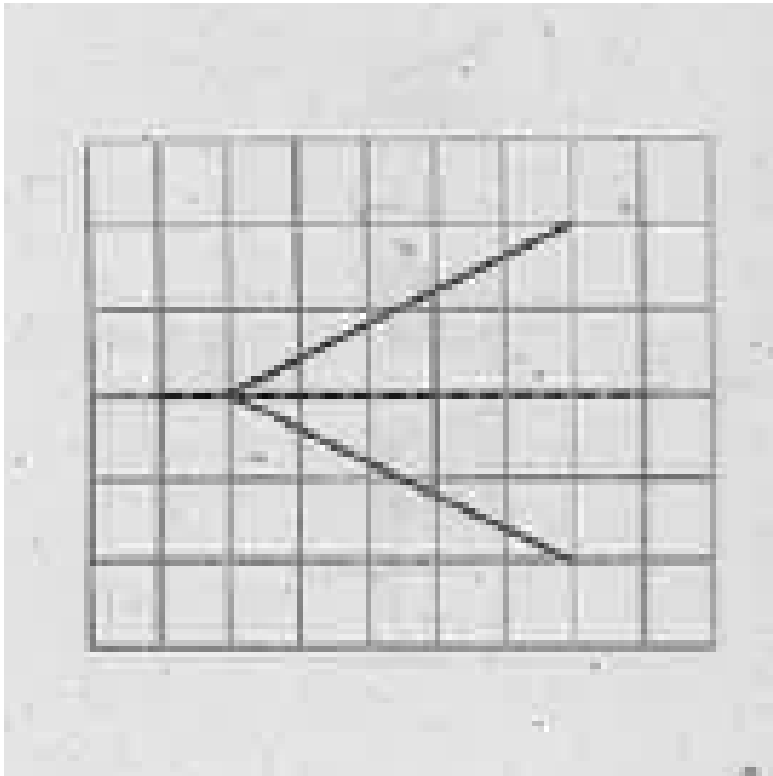
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**38.** Consider the letters of English alphabets, A to Z. List among them the letters which have  
(a) vertical lines of symmetry (like A)



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**39.** Consider the letters of English alphabets, A to Z. List among them the letters which have  
(b) horizontal lines of symmetry (like B)



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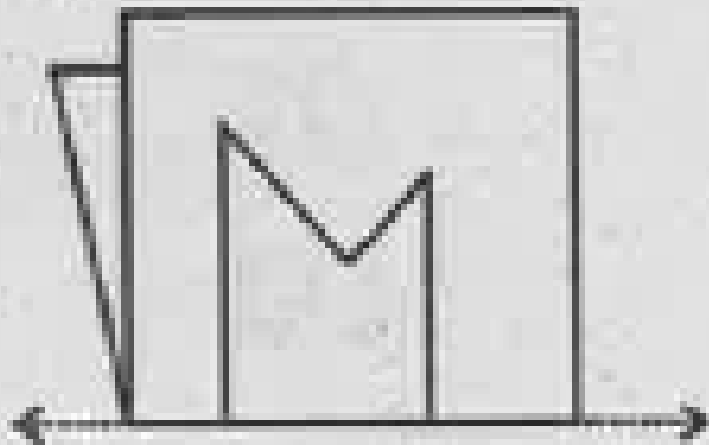
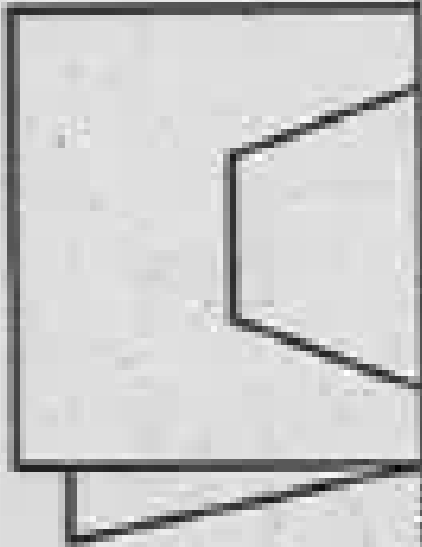
**40.** Consider the letters of English alphabets, A to Z. List among them the letters which have (c) no lines of symmetry (like Q)



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





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

check your answers? (a)





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**43.** Find the number of lines of symmetry in each of the following shapes. How will you check your answers? (b)

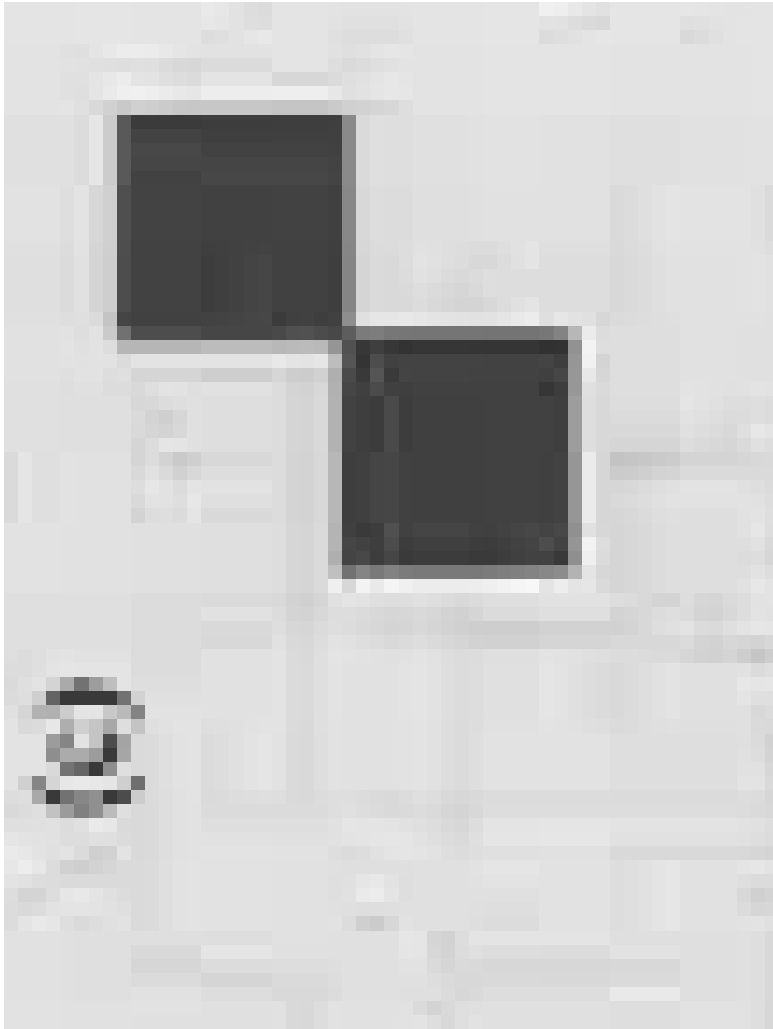




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**44.** Find the number of lines of symmetry in each of the following shapes. How will you

check your answers? (c)

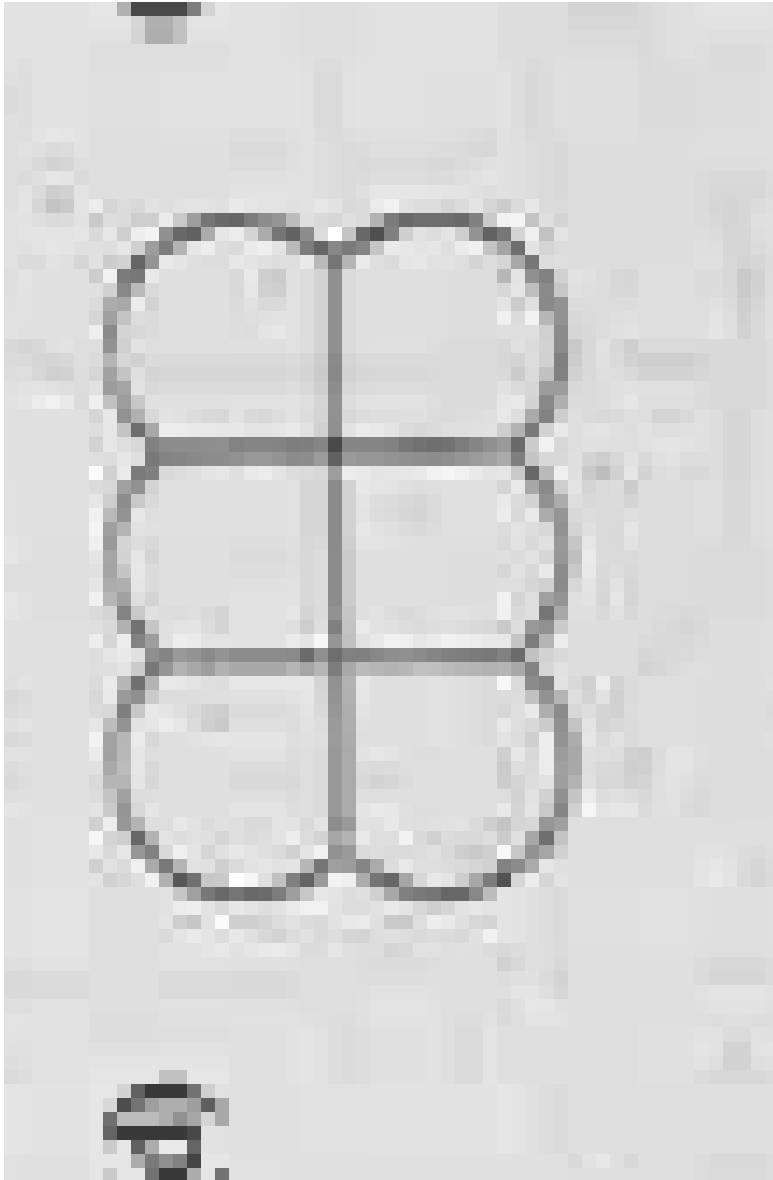


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**45.** Find the number of lines of symmetry in each of the following shapes. How will you



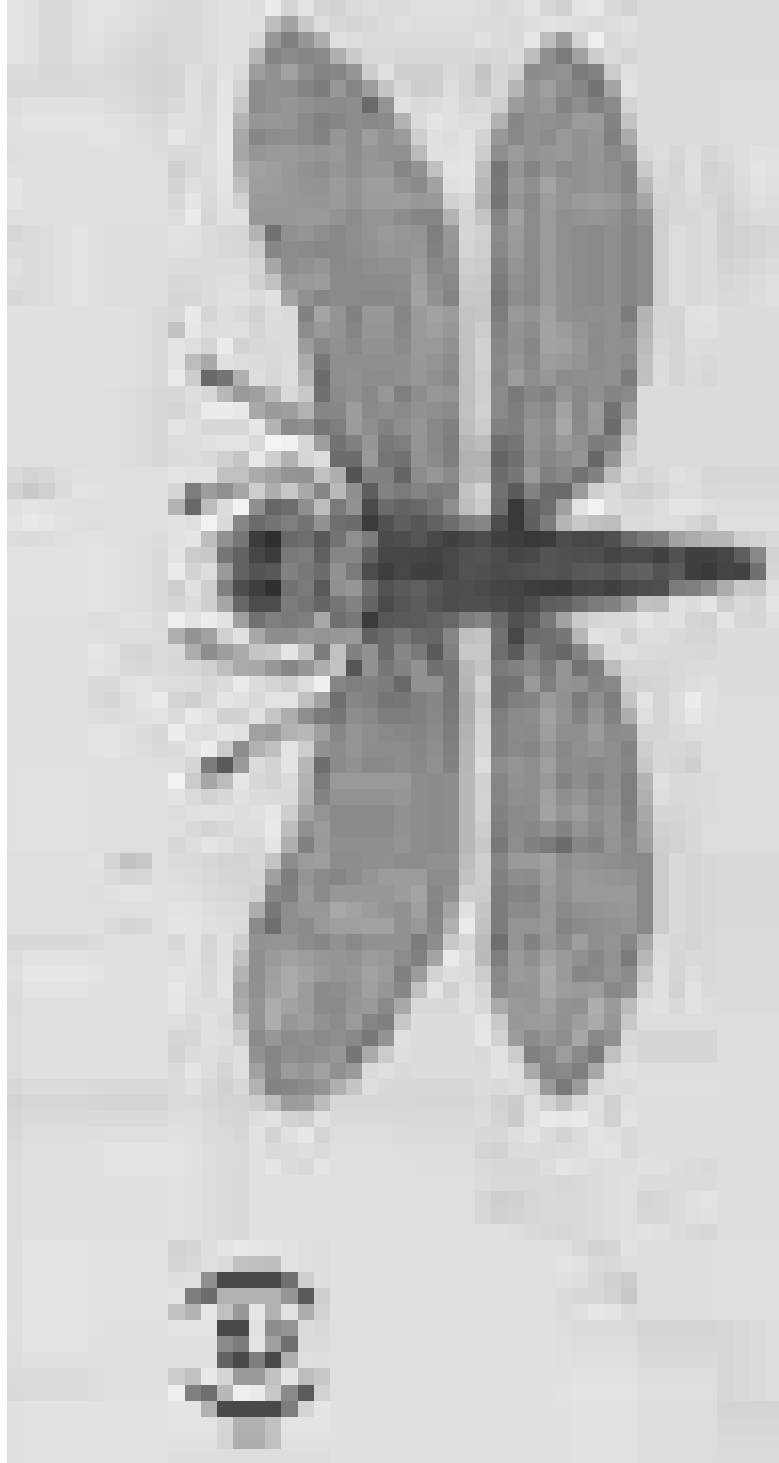
check your answers? (d)



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

check your answers? (e)

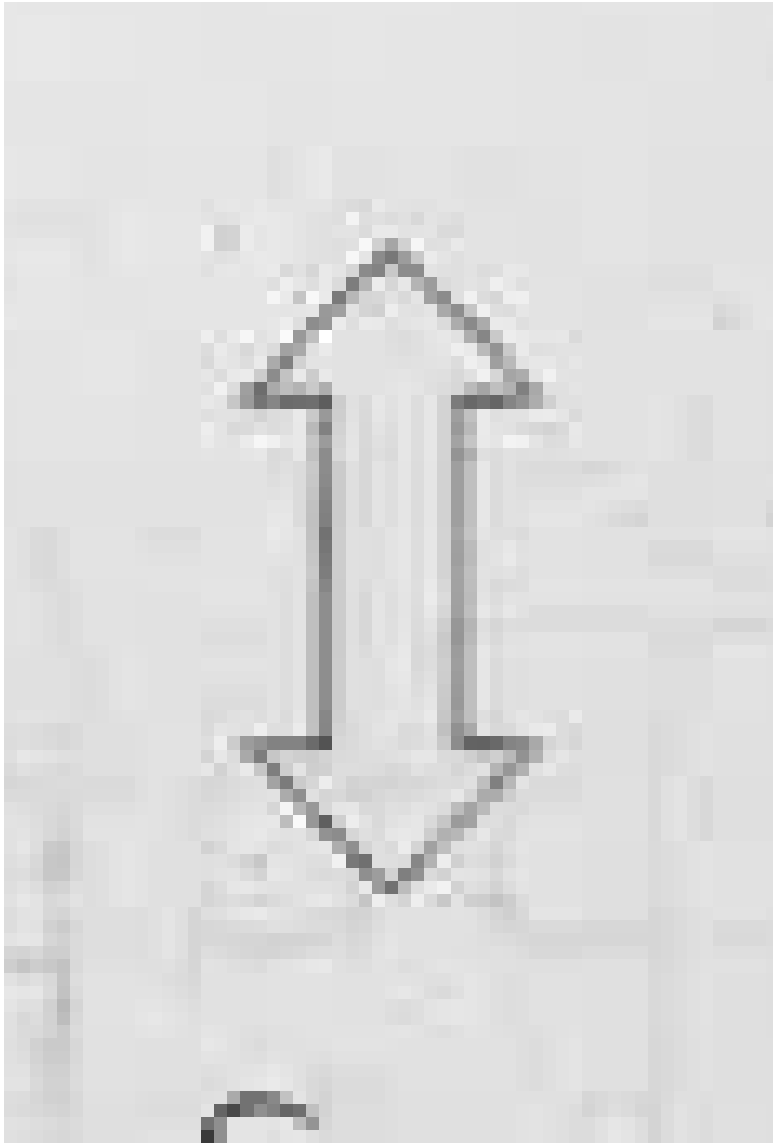




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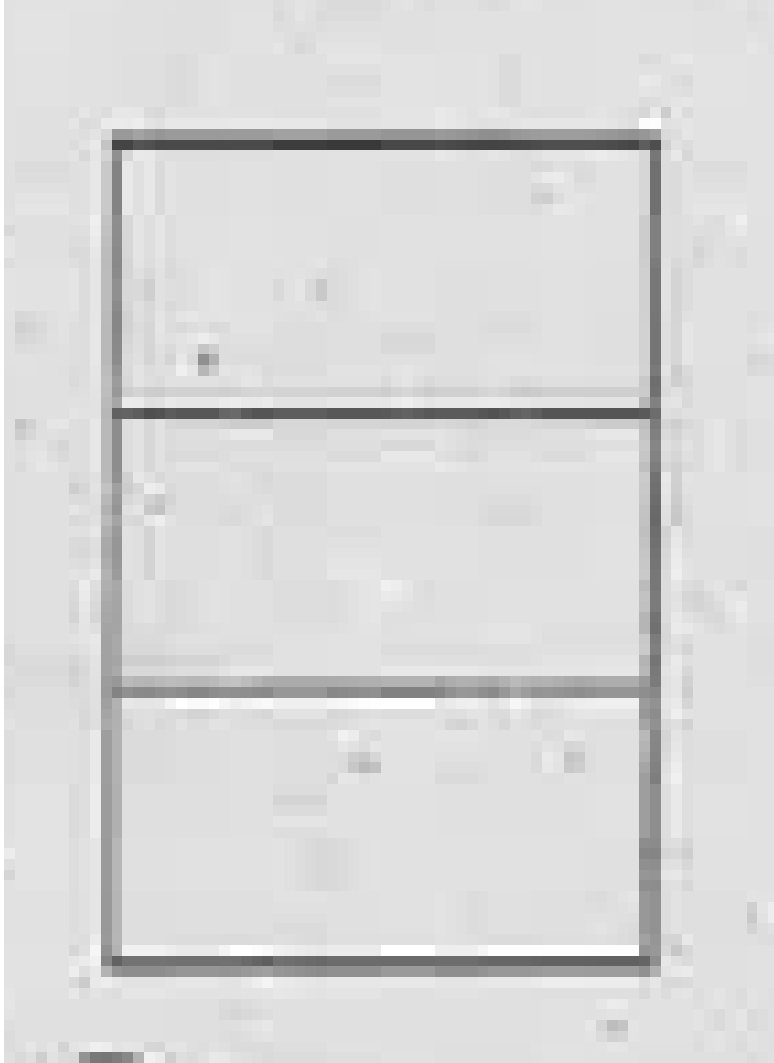
**47.** Find the number of lines of symmetry in each of the following shapes. How will you

check your answers? (f)



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48. Colour the part according to the given fraction.(iii)



$$\frac{1}{3}$$

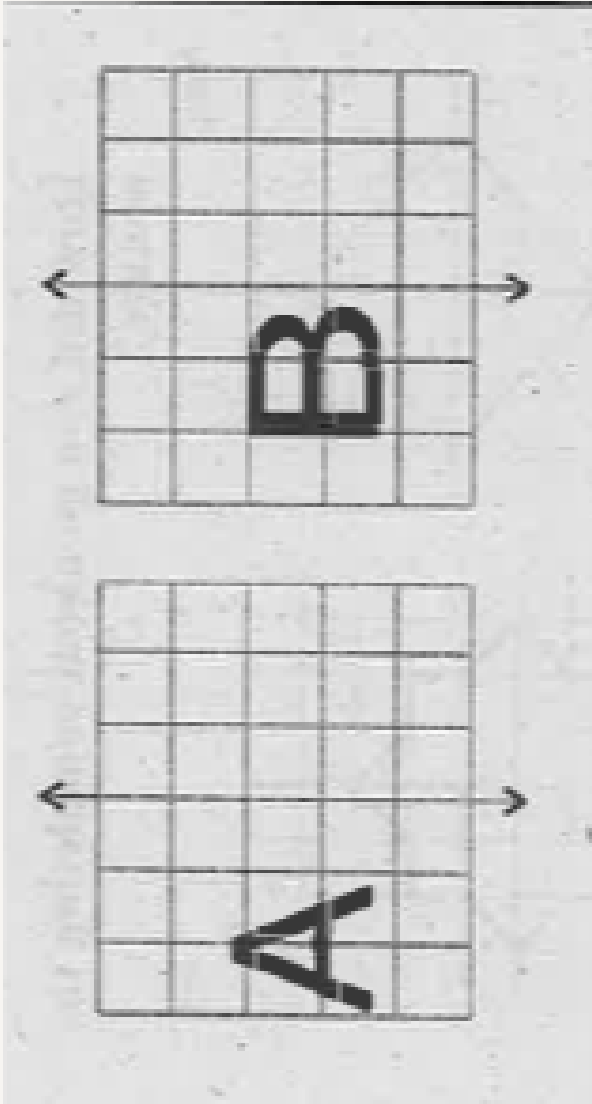


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**49.** In each figure alongside, a letter of the alphabet is shown along with a vertical line. Take the mirror image of the letter in the given line. Find which letters look the same after reflection (i.e. which letters look the same in the image) and which do not. Can you guess



why? Try for O E M N P H L T S V X



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