



MATHS

BOOKS - MBD

SYMMETRY

Example

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



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



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3. Which of the following has one line of symmetry?



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4. Copy the following on a squared paper. A square paper is what you could have used in your arithmetic notebook in earlier classes. Then complete them such that the dotted line is the line of symmetry.



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5. In the figure, l is the line of symmetry. Complete the diagram to be symmetric.





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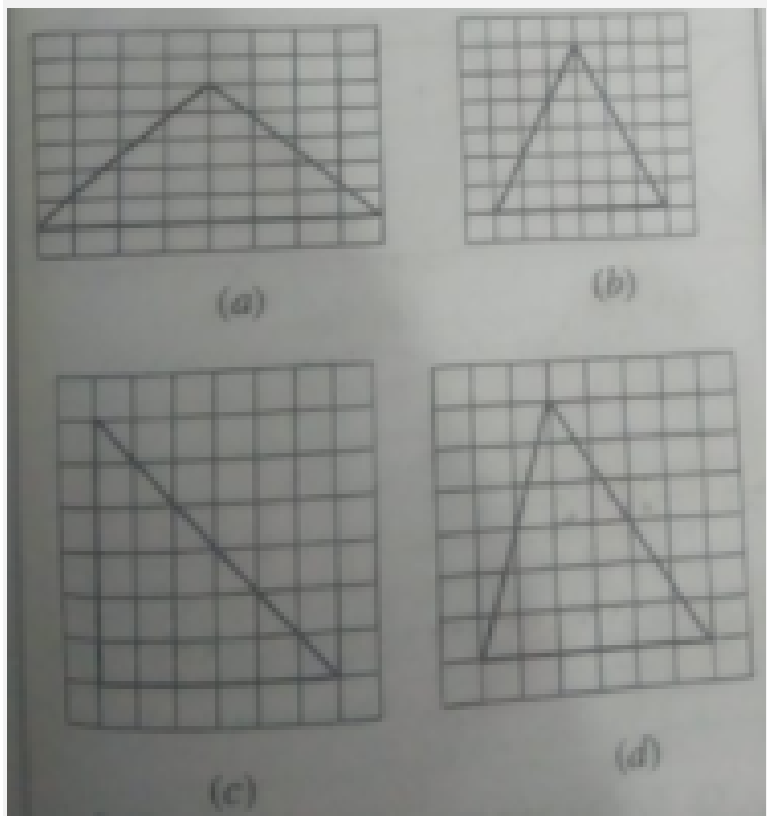
7. Find the number of line of symmetry for each of the following shapes:



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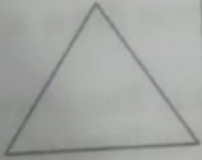
8. Copy the triangle in each of the following figures, on squared paper. In each case draw the line(s) of symmetry if any and identify the type of triangle. (Some of you may like to trace the

figures and try paper-folding first!)



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9. 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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10. Can you draw a triangle which has:
exactly one line of symmetry?



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11. Can you draw a triangle which has:
Exactly two lines of symmetry?



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12. Can you draw a triangle which has:
exactly three lines of symmetry?



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13. Can you draw a triangle which has:
no lines of symmetry?



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14. On a squared paper, sketch the following:
A triangle with a horizontal line of symmetry
but no vertical line of symmetry.



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15. On a squared paper, sketch the following:

A quadrilateral with both horizontal and vertical lines of symmetry.



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16. On a squared paper, sketch the following:

A quadrilateral with a horizontal line of symmetry but no vertical line of symmetry.



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17. On a squared paper, sketch the following:

A hexagon with exactly two lines of symmetry.



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18. On a squared paper, sketch the following:

A hexagon with exactly two lines of symmetry.



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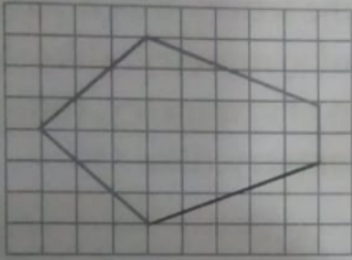
19. On a squared paper, sketch the following:

A hexagon with six lines of symmetry.



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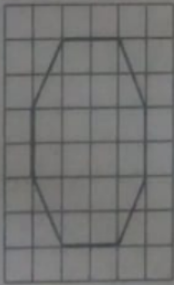
20. Trace each figure and draw the lines of symmetry, if any:



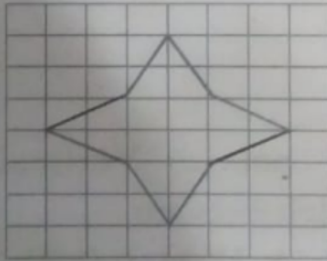
(c)



(d)



(e)



(f)



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21. Consider the English alphabets A to Z. List among them the letters which have:

vertical lines of symmetry.(like A)



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22. Consider the English alphabets A to Z.List among them the letters which have:

horizontal lines of symmetry.(like B)



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23. Consider the English alphabets A to Z.List among them the letters which have:

no lines of symmetry(like Q).



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24. Given here are figures of a few folded wheets 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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25. Find the number of line of symmetry for each of the following shapes:



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26. Copy the following drawing on squared paper. Complete each one of them such that the resulting figure has the two dotted lines as two lines as two lines of symmetry:



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27. 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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Exercise

1. Copy the following figures in each case and draw the line of symmetry:



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2. Mark the line of symmetry in each of the following:

MOM



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3. Mark the line of symmetry in each of the following:

SO



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4. Mark the line of symmetry in each of the following:

DA



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



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6. State true or false:

The diameter of the circle is one of its lines of symmetry.



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7. State true or false:

A pentagon has 5 lines of symmetry.



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8. State true or false:

A line of symmetry always divides a figure into two congruent figures.



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9. State true or false:

A right angled triangle may have only one line of symmetry.



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10. State true or false:

An equilateral triangle has two lines of symmetry.



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11. State true or false:

A regular hexagon has 6 lines of symmetry.



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12. How many lines of symmetry do the following alphabets have?

V



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13. How many lines of symmetry do the following alphabets have?

X



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14. How many lines of symmetry do the following alphabets have?

U



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15. How many lines of symmetry do the following alphabets have?

M



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16. How many lines of symmetry do the following alphabets have?

A



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17. How many lines of symmetry do the following alphabets have?

0



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18. Draw the figures and state the number of lines of symmetry for the following :

An angle with equal arms



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19. Draw the figures and state the number of lines of symmetry for the following :

Scalene Triangle



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20. State the number of lines of symmetry for the following figures:

A parallelogram



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21. State the number of lines of symmetry for the following figures:

An isosceles triangle



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22. State the number of lines of symmetry for the following figures:

A rectangle



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23. State the number of lines of symmetry for the following figures:

A rhombus



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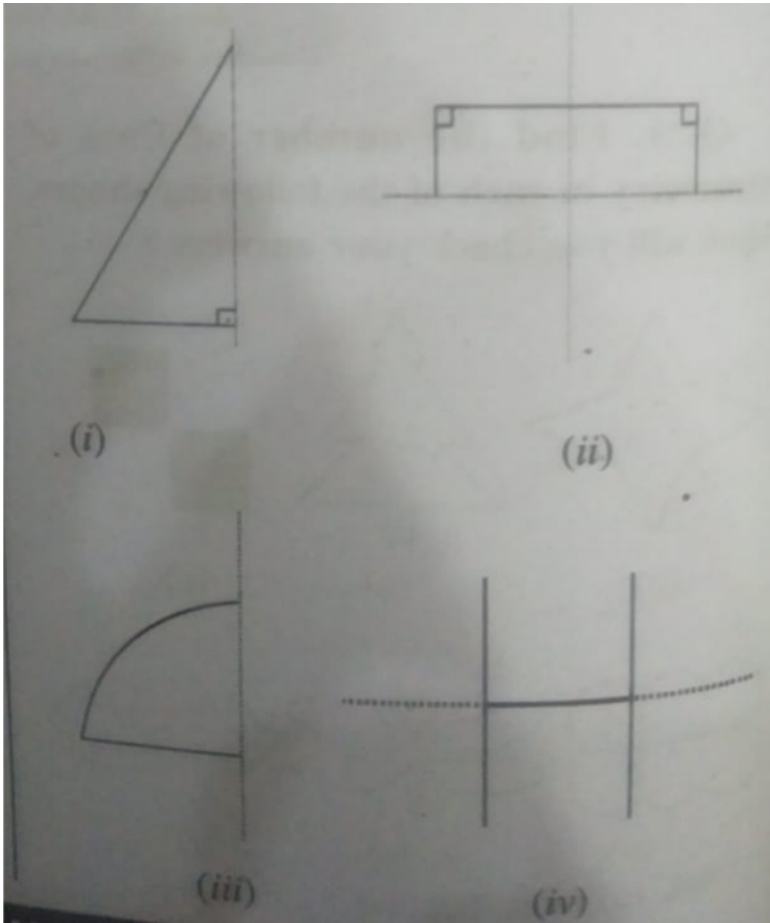
24. Draw the figures and state the number of lines of symmetry for the following :

A Kite.



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25. complete them so that each resulting figure is symmetrical about the given dotted line or lines.



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26. The number of lines of symmetry of the isosceles triangle are:

A. 1

B. 0

C. 2

D. 3

Answer:



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27. State the number of lines of symmetry for the following figures:

A scalene triangle

A. 1

B. 0

C. 2

D. 4

Answer:



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28. The number of lines of symmetry of the square are:.

A. 0

B. 2

C. 3

D. 4

Answer:



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29. the number of lines of symmetry of a rectangle are:



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30. State the number of lines of symmetry for the following figures:

A rhombus

A. 2

B. 4

C. 3

D. 1

Answer:



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31. Which of the following has no line of symmetry?

A. Equilateral triangle

B. Isosceles triangle

C. Scalene triangle

D. Rectangle.

Answer:



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32. Which of the following has one line of symmetry?

A. Equilateral triangle

B. Square

C. Isosceles triangle

D. Rectangle.

Answer:



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33. Which of the following has two lines of symmetry?

A. Equilateral triangle

B. Square

C. Rectangle

D. Circle.

Answer:



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