

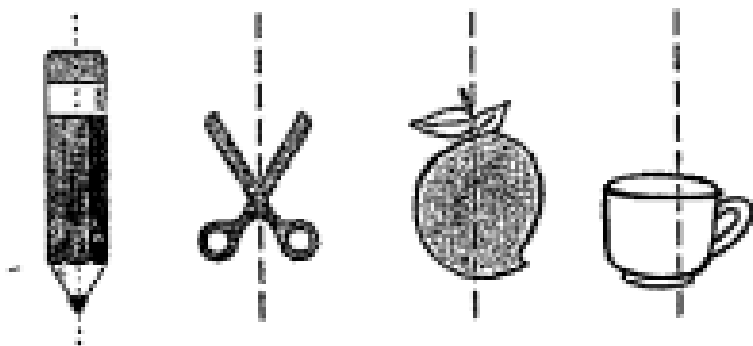
MATHS

NCERT - NCERT MATHS(TELUGU)

SYMMETRY

Exercise

1. Can you find line of symmetry for every

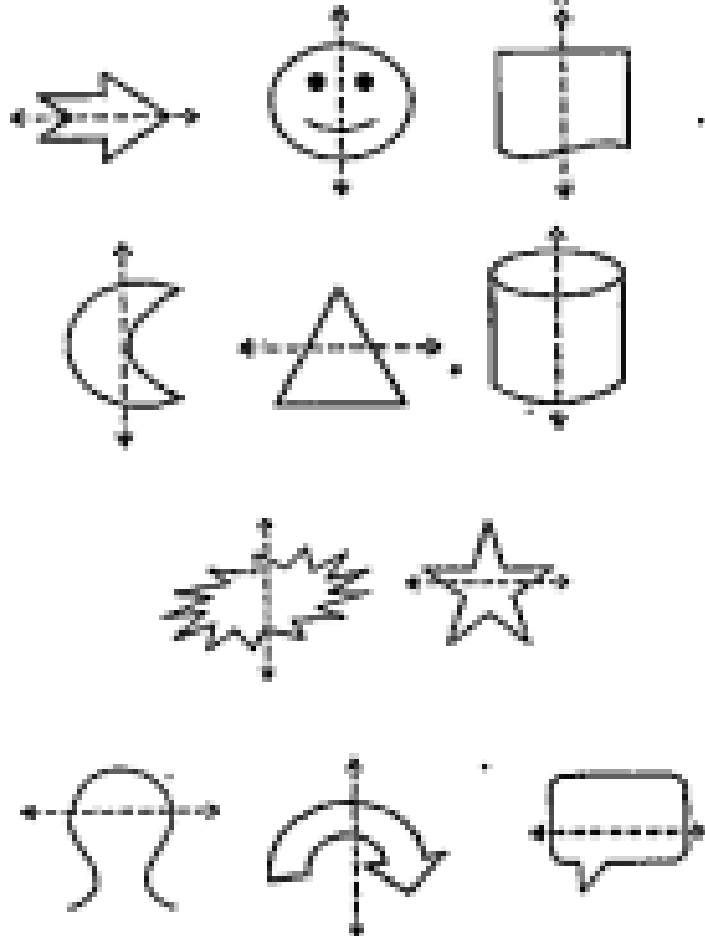


figure?



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2. Check whether the dotted line represents the line of symmetry or not.



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3. Draw any five objects which have a line of a symmetry.



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4. Draw any five objects which are not symmetric.



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5. Write the letters of English alphabet A to Z and find out: Vertical lines of symmetry.



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6. Write the letters of English alphabet A to Z and find out: Horizontal lines of symmetry.



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7. Write the letters of English alphabet A to Z and find out: No lines of symmetry.



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8. Check whether the figures are symmetric or not? Draw the line of symmetry as well.

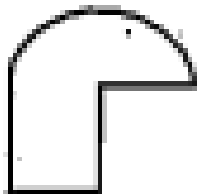
i)



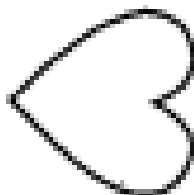
ii)



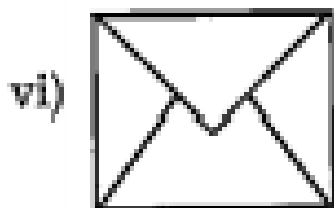
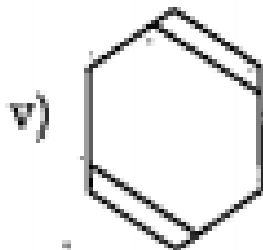
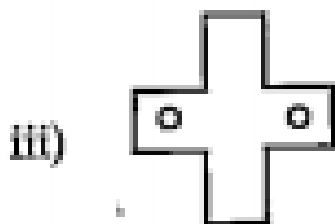
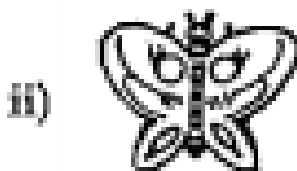
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iv)



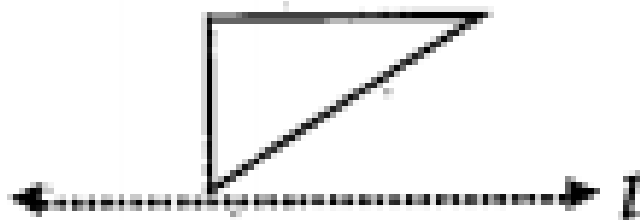
9. Draw a line of symmetry for each of the figures, wherever possible.





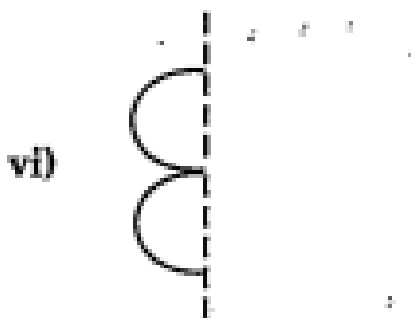
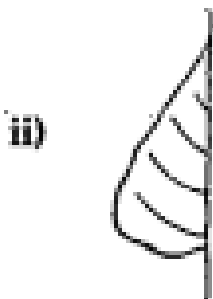
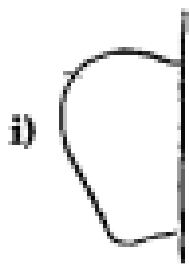
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10. In the figure, L is the line of symmetry.
Complete the diagram to make it symmetric.



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11. Complete the figures such that the dotted lines is the line of symmetry.



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12. Write any five man made things which have two lines of symmetry.



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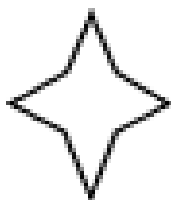
13. Write any five daigrams which have two or more more than two lines of symmetry.



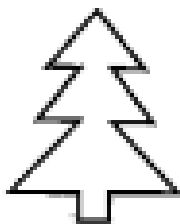
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14. Find the number of lines of symmetry for the shapes.

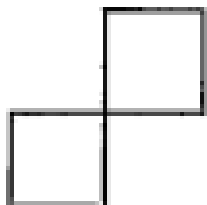
i)



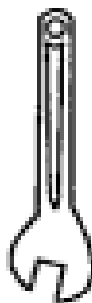
ii)



iii)



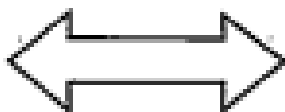
iv)



v)



vi)



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15. Draw the possible number of lines of symmetry for Equilateral Triangle.



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16. Draw the possible number of lines of symmetry for Isosceles triangle.



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17. Draw the possible number of lines of symmetry for Scalene triangle.



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18. Draw the possible number of lines of symmetry for Rhombus.



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19. Draw the possible number of lines of symmetry for Hexagon.



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20. Draw the possible number of lines of symmetry for Circle.



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21. Complete the table.

Sl No.	Shape	No. of lines of symmetry
1.	Equilateral triangle	
2.	Isosceles triangle	
3.	Scalene triangle	
4.	Rhombus	
5.	Hexagon	
6.	Circle	

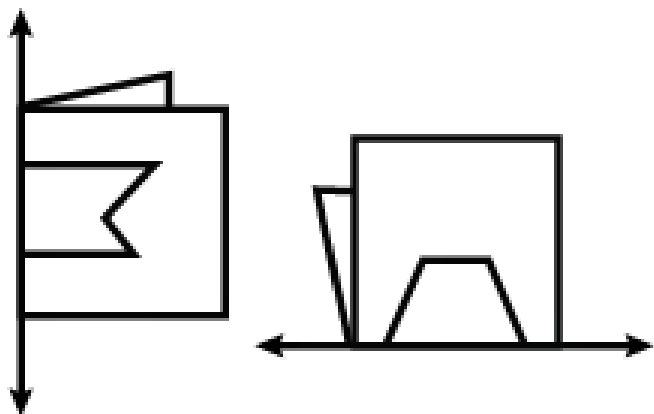


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22. A few folded sheets and designs drawn about the fold are given. In each case, draw a

rough diagram of the complete figure that would be seen when the design is cut off:

Paper is folded vertically once.



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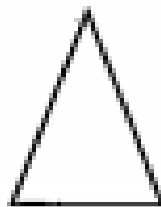
23. Draw the possible number of lines of symmetry.

i)



Equilateral triangle

ii)



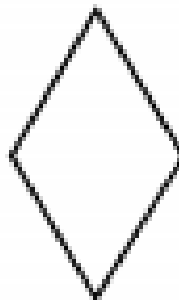
Isosceles triangle

iii)



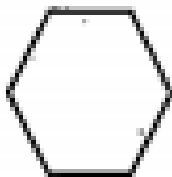
Scalene triangle

iv)



Rhombus

v)

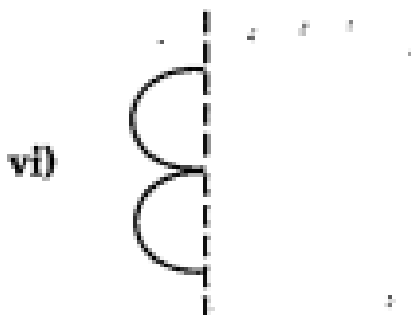
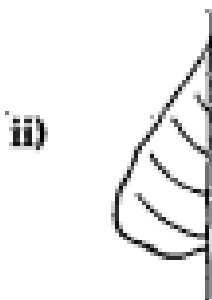
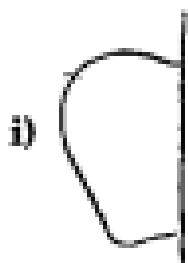


Hexagon



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24. Complete the figures such that the dotted lines is the line of symmetry.



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25. has infinite number of symmetric lines.



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26. The English letter 'H' has number of symmetric lines.



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27. A parallelogram has..... number of symmetric lines.



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28.is a part of the circle is called its lines of symmetry.



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29. M is number of symmetric lines.



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30. Which of the following has at least one line of symmetry ?



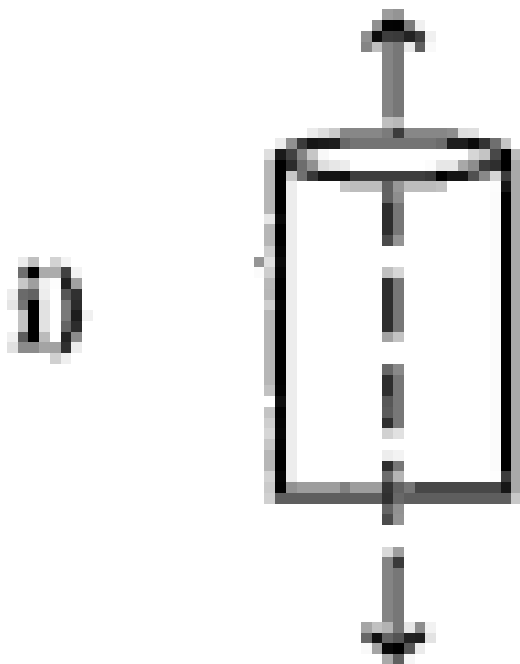
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31. Describe the formation of mirror images of the objects?



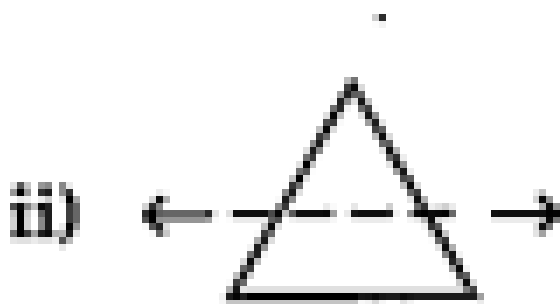
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32. Check whether the dotted line represents the line of symmetry or not?



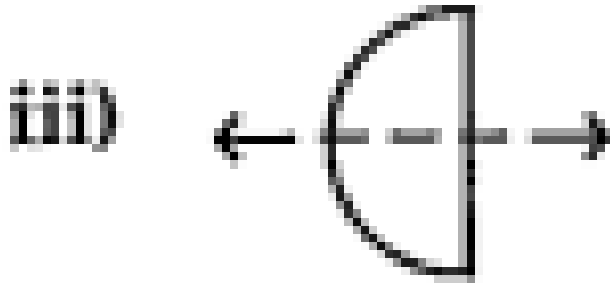
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33. Check whether the dotted line represents the line of symmetry or not?



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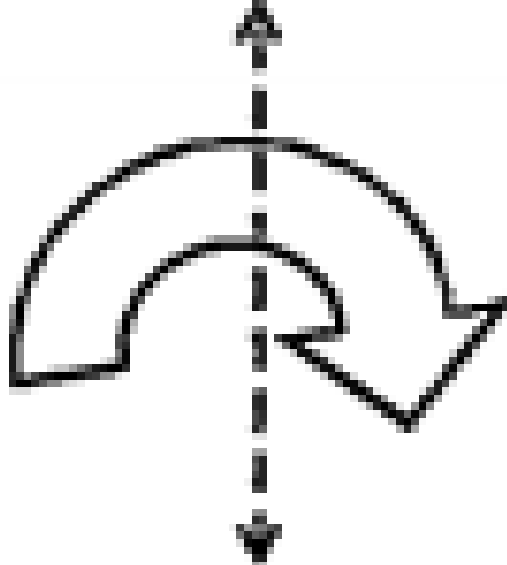
34. Check whether the dotted line represents the line of symmetry or not?



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35. Check whether the dotted line represents the line of symmetry or not?

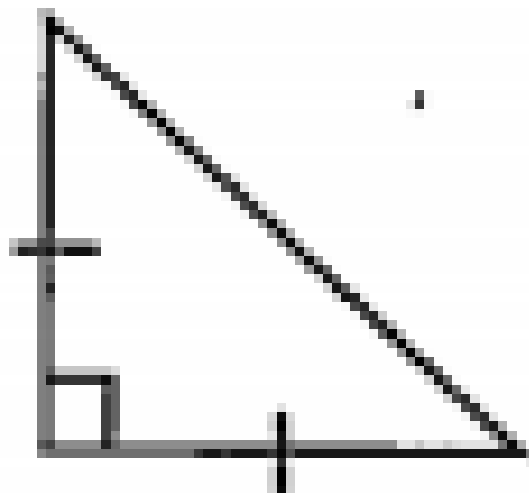
iv)



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36. Draw the lines of symmetry for Right angled Isosceles triangle.

D

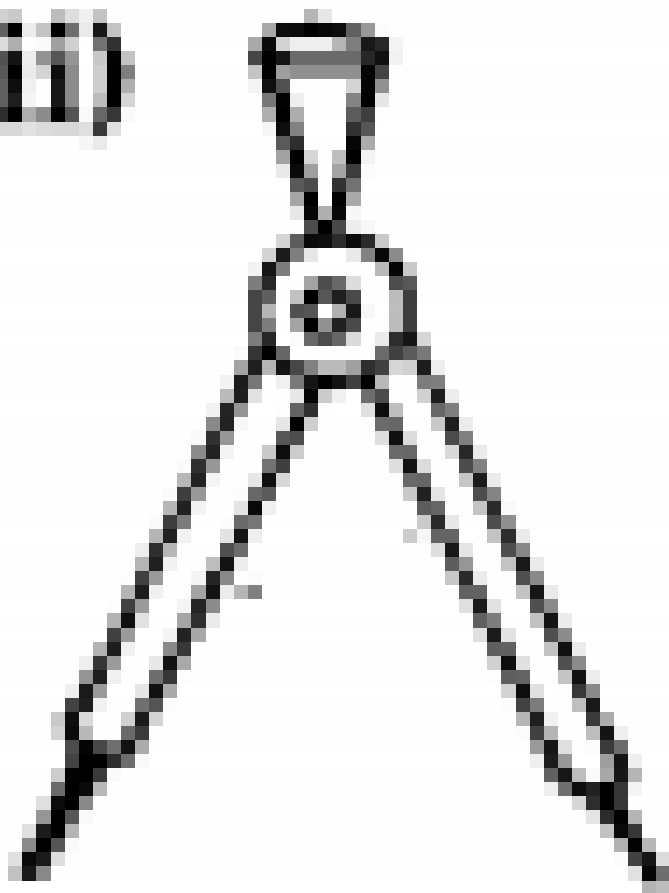


Right angled
Isosceles triangle



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37. Draw the lines of symmetry for Divider.



Divider



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38. Which of the English alphabet have two symmetric lines?



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39. Recognise which the alphabets are non-symmetric?

A. M

B. O

C. X

D. F

Answer:



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Do This

1. Match each letter with its mirror image. The dotted line with every letter shows the mirror.

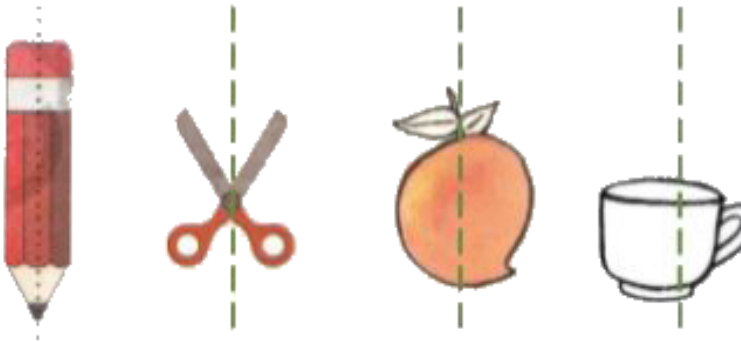
	Alphabet	Image
(i)	B	Ɔ
(ii)	L	⅃
(iii)	N	⅃
(iv)	M	⅃
(v)	P	T
(vi)	T	J

Can you think of more such alphabets and words which will remain the same in their mirror image?



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2. In the figures given below find which are symmetric figures.

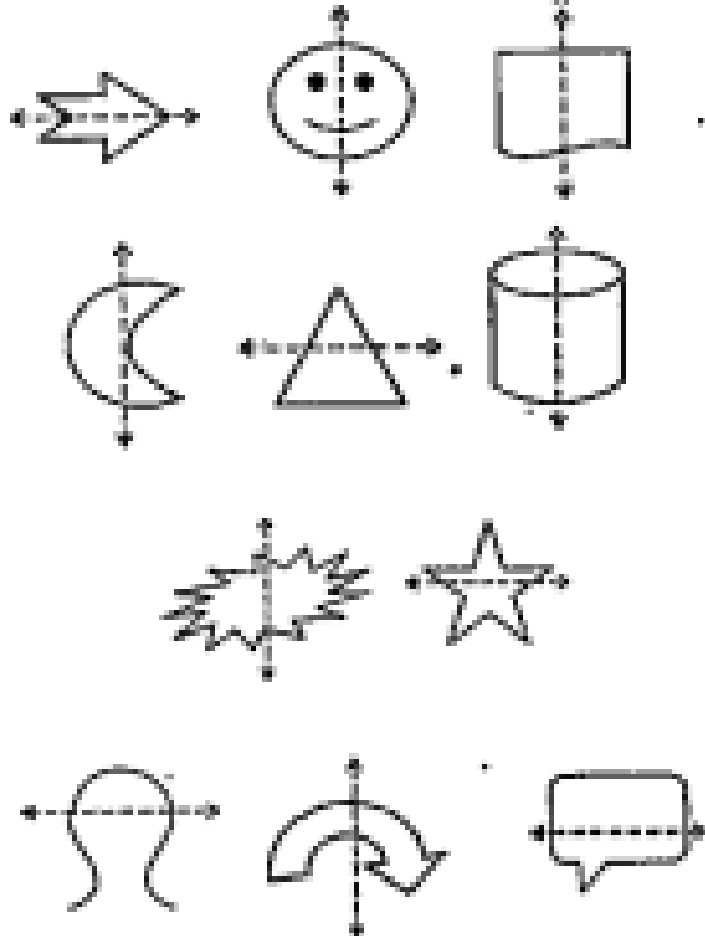


Can we find line of symmetry for every figure?



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3. Check whether the dotted line represents the line of symmetry or not.



Watch Video Solution

4. Match each letter with its mirror image. The dotted line with every letter shows the mirror.

	Alphabet	Image
(i)	B	Ɔ
(ii)	L	3
(iii)	N	M
(iv)	M	N
(v)	P	T
(vi)	T	P

Can you think of more such alphabets and words which will remain the same in their mirror image?



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5. In the figures given below find which are symmetric figures.

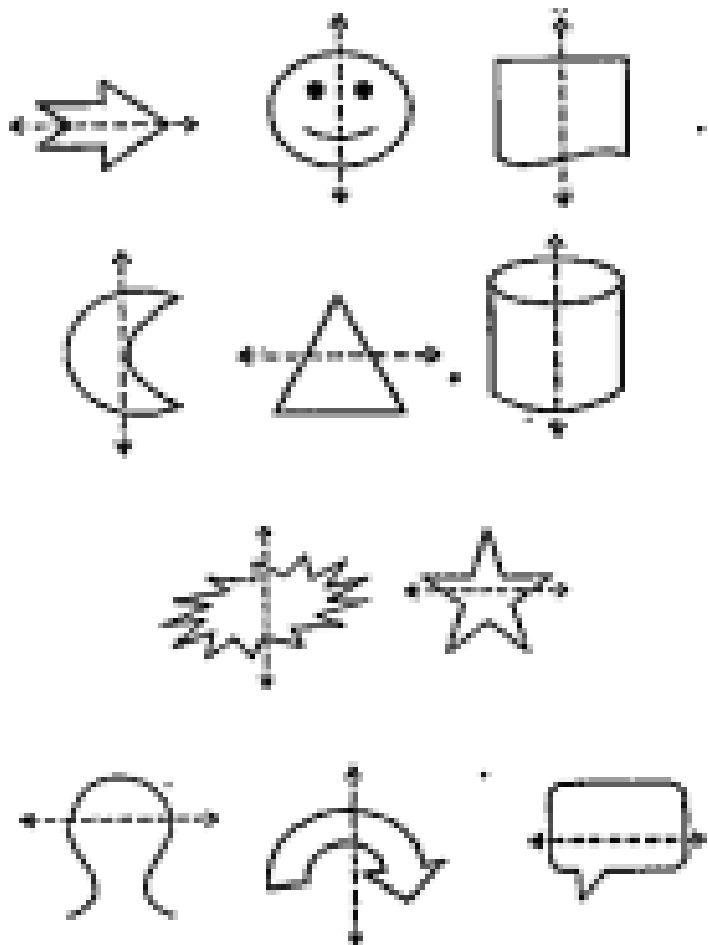


Can we find line of symmetry for every figure?



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6. Check whether the dotted line represents the line of symmetry or not.



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Try These

1. Write the letters of English alphabet A to Z and find out: Vertical lines of symmetry.



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2. Write the letters of English alphabet A to Z and find out: Horizontal lines of symmetry.



Watch Video Solution

3. Write the letters of English alphabet A to Z and find out: Vertical lines of symmetry.



Watch Video Solution

4. Draw any five objects which have a line of a symmetry.



Watch Video Solution

5. Draw any five objects which are not symmetric.



Watch Video Solution

6. Write the letters of English alphabet A to Z and find out: Vertical lines of symmetry.



Watch Video Solution

7. Write the letters of English alphabet A to Z and find out: Horizontal lines of symmetry.



Watch Video Solution

8. Write the letters of English alphabet A to Z and find out: No lines of symmetry.



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9. Draw any five objects which have a line of a symmetry.



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10. Draw any five objects which are not symmetric.



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Think Discuss And Write

1. If the paper is folded three times how many lines of symmetry can be formed with paper cutting.



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2. To cut four similar figures side by side by folding the paper, how many folds are needed?



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3. If the paper is folded three times how many lines of symmetry can be formed with paper cutting.



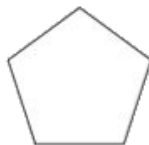
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4. To cut four similar figures side by side by folding the paper, how many folds are needed?



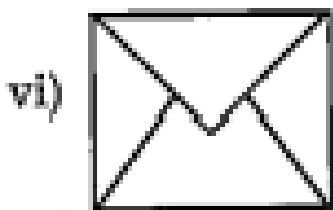
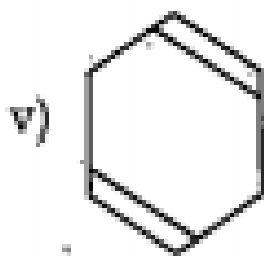
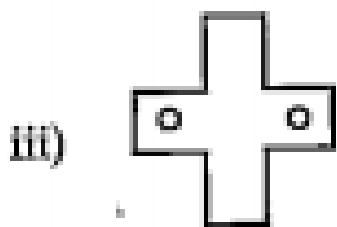
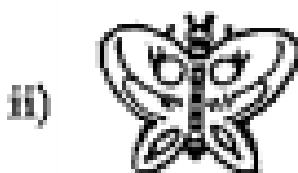
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1. Check whether the given figures are symmetric or not? Draw the line of symmetry as well.



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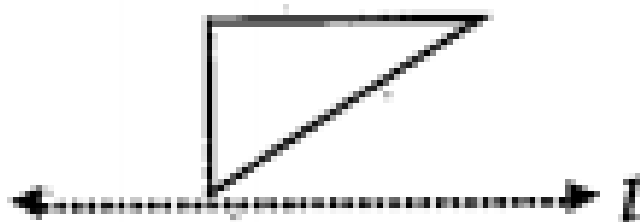
2. Draw a line of symmetry for each of the figures, wherever possible.



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3. In the figure, L is the line of symmetry.

Complete the diagram to make it symmetric.

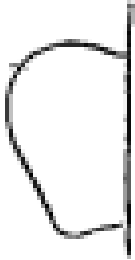


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4. Complete the figures such that the dotted

lines is the line of symmetry.

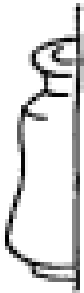
i)



ii)



iii)



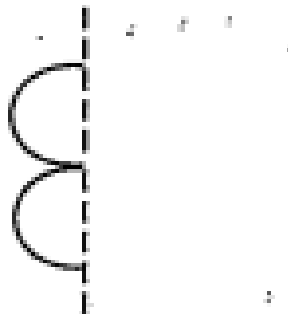
iv)



v)



vi)



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5. Check whether the given figures are symmetric or not? Draw the line of symmetry as well.

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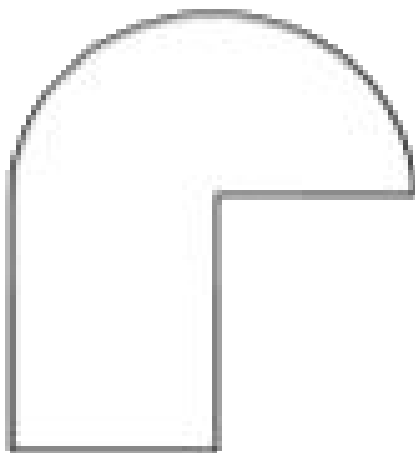
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6. Check whether the given figures are symmetric or not? Draw the line of symmetry as well.



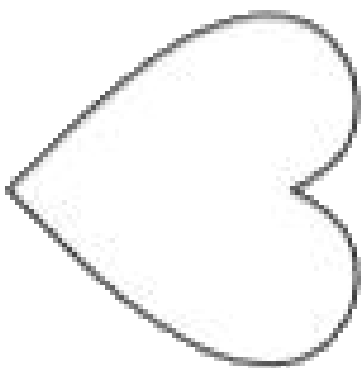
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7. Check whether the given figures are symmetric or not? Draw the line of symmetry as well.



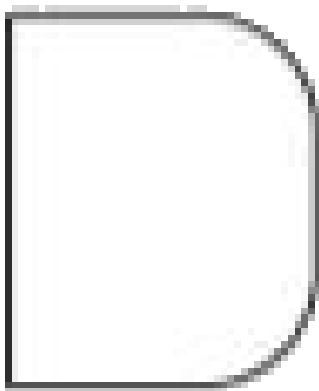
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8. Check whether the given figures are symmetric or not? Draw the line of symmetry as well.



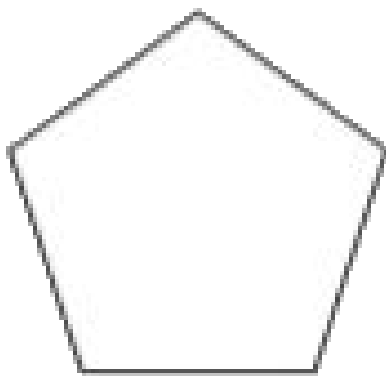
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9. Check whether the given figures are symmetric or not? Draw the line of symmetry as well.



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10. Check whether the given figures are symmetric or not? Draw the line of symmetry as well.



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11. Draw a line of symmetry for each of the figures, wherever possible.



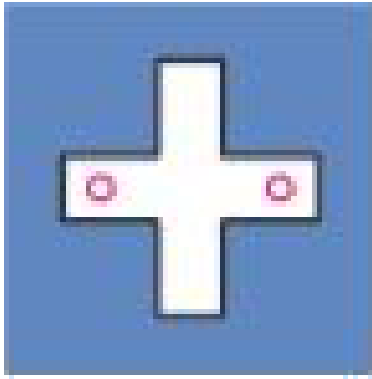
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12. Draw a line of symmetry for each of the figures, wherever possible.



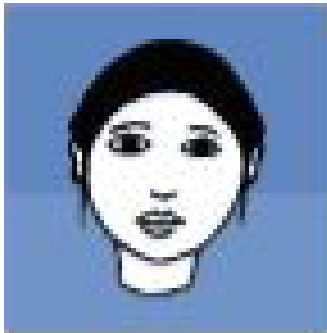
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13. Draw a line of symmetry for each of the figures, wherever possible.



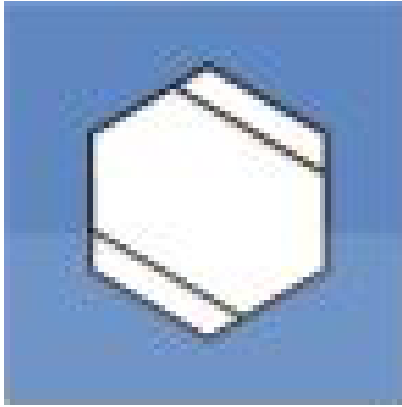
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14. Draw a line of symmetry for each of the figures, wherever possible.



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15. Draw a line of symmetry for each of the figures, wherever possible.



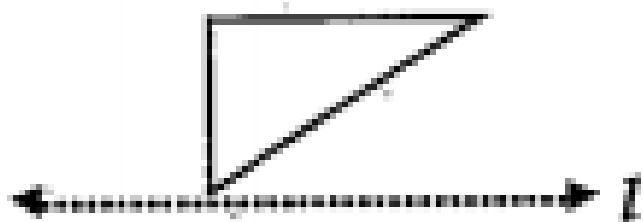
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16. Draw a line of symmetry for each of the figures, wherever possible.



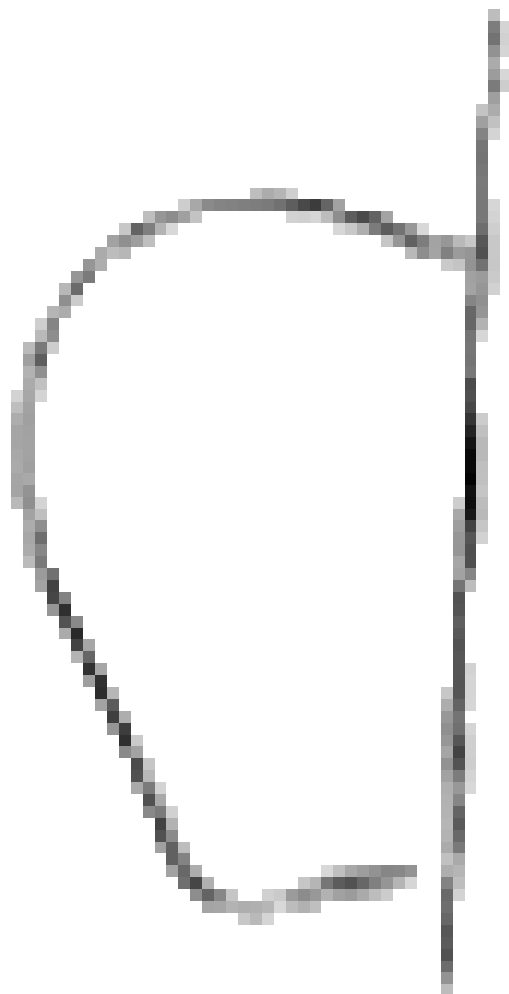
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17. In the figure, L is the line of symmetry.
Complete the diagram to make it symmetric.



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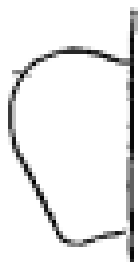
18. Complete the figures such that the dotted line is the line of symmetry.



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19. Complete the figures such that the dotted lines is the line of symmetry.

i)



ii)



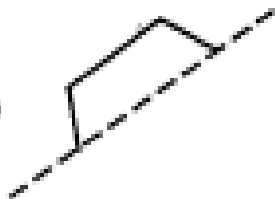
iii)



iv)



v)

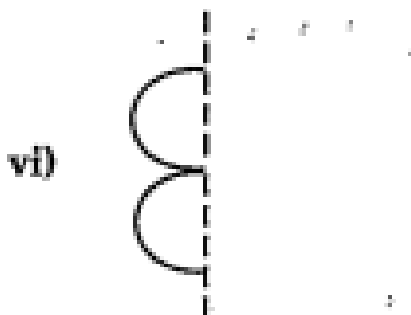
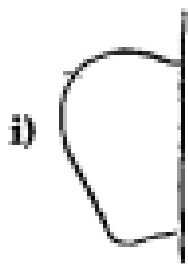


vi)



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20. Complete the figures such that the dotted lines is the line of symmetry.



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21. Complete the figures such that the dotted line is the line of symmetry.



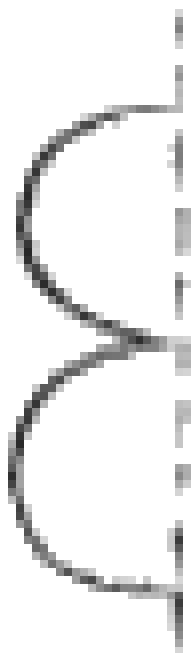
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22. Complete the figures such that the dotted line is the line of symmetry.



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23. Complete the figures such that the dotted line is the line of symmetry.



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Exercise 12 2

1. Write any five man made things which have two lines of symmetry.



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2. Write any five daigrams which have two or more more than two lines of symmetry.



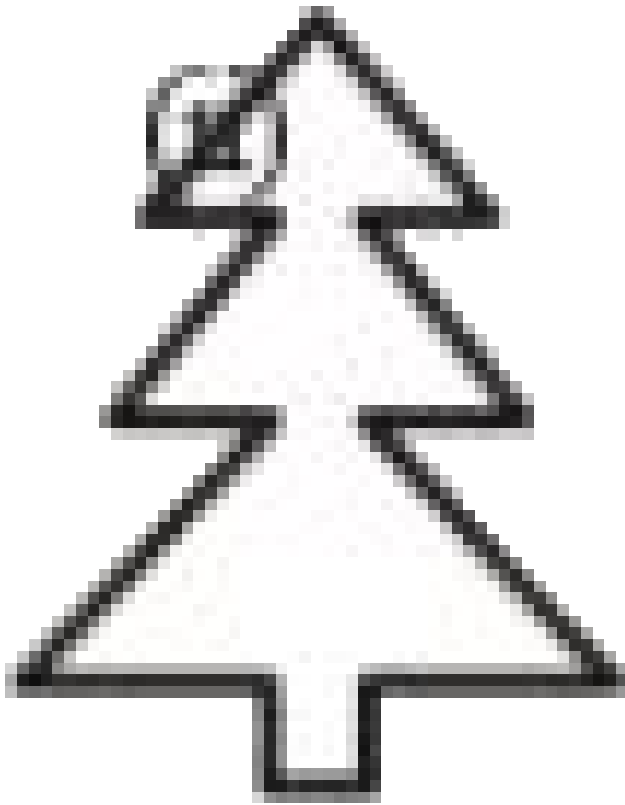
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3. Find the number of lines of symmetry for the following shapes.



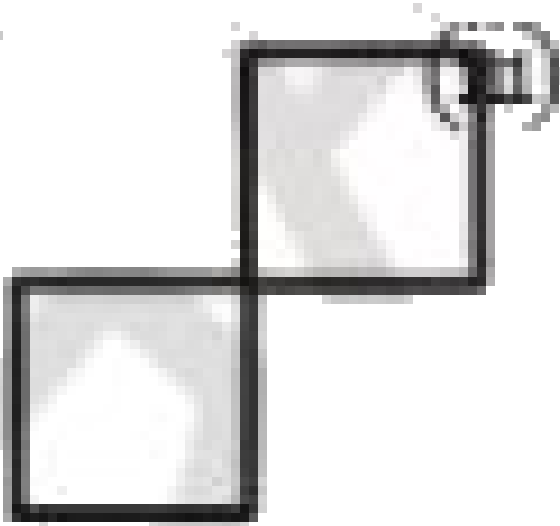
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4. Find the number of lines of symmetry for the following shapes.



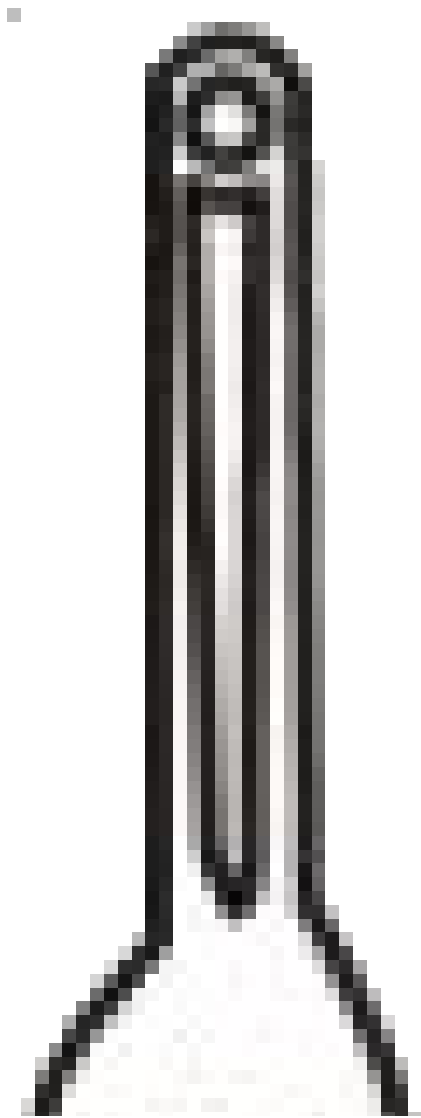
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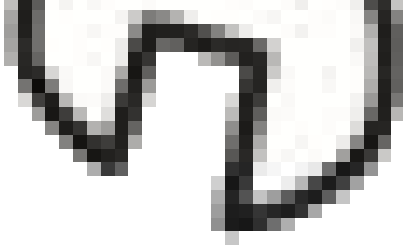
5. Find the number of lines of symmetry for the following shapes.



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





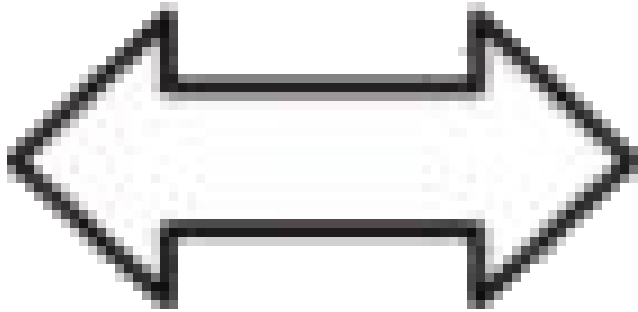
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7. Find the number of lines of symmetry for the following shapes.



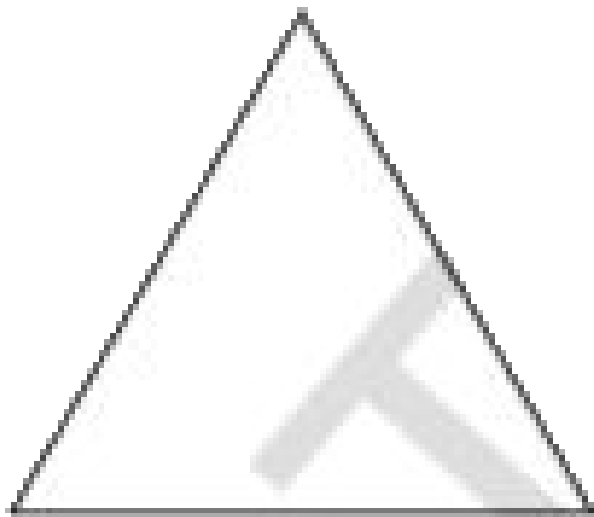
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8. Find the number of lines of symmetry for the following shapes.



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9. Draw the possible number of lines of symmetry.

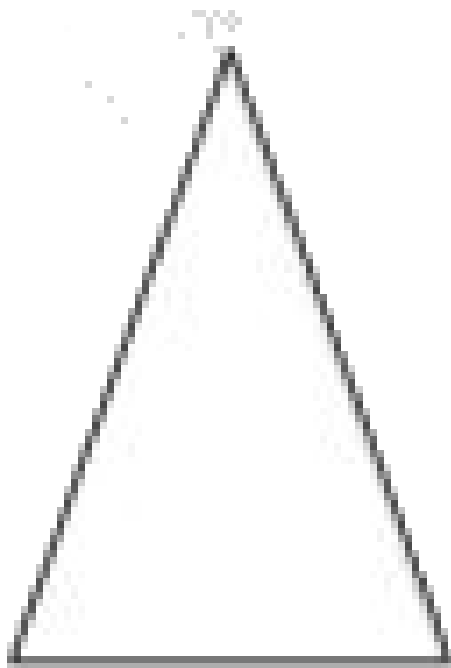


Equilateral triangle



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10. Draw the possible number of lines of symmetry.

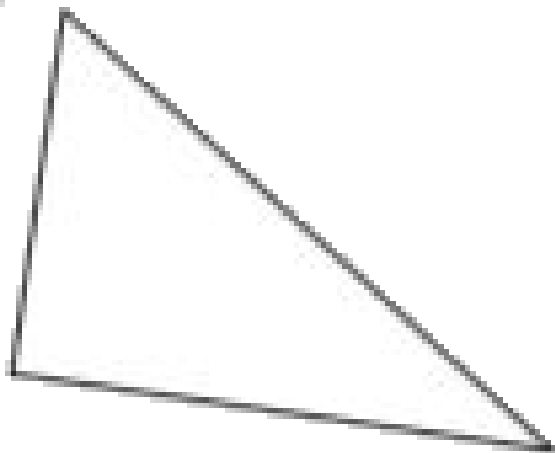


Isosceles triangle



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11. Draw the possible number of lines of symmetry.

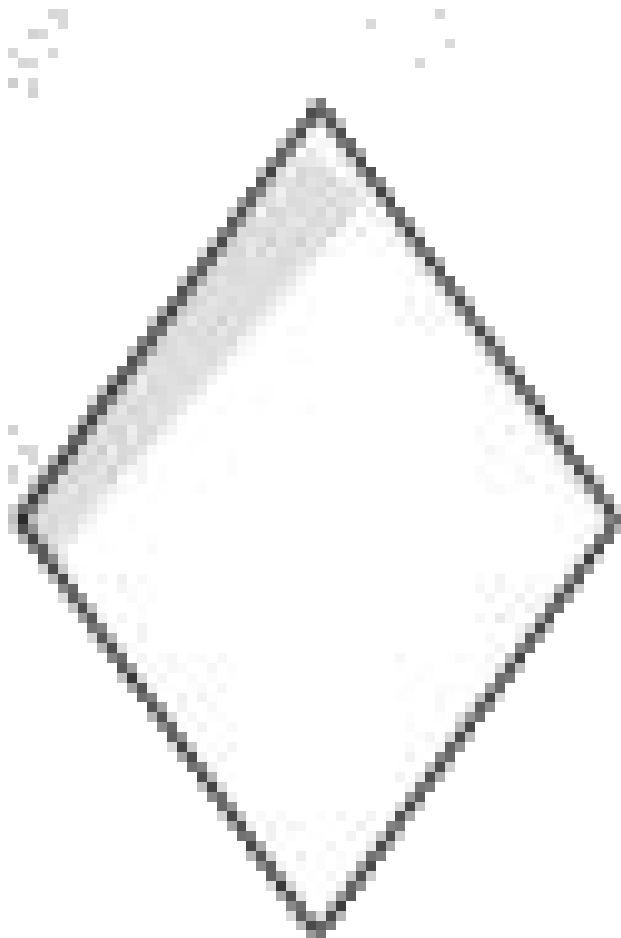


Scalene triangle



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12. Draw the possible number of lines of symmetry.

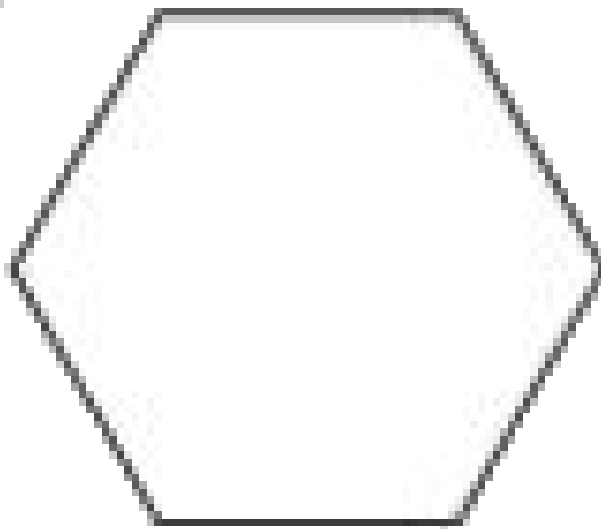


Rhombus



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13. Draw the possible number of lines of symmetry.

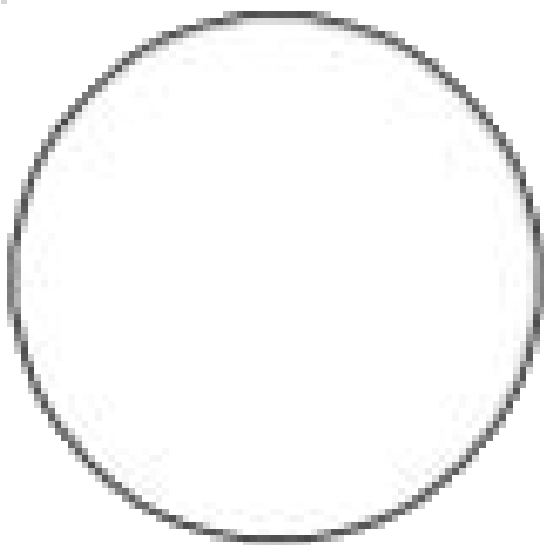


Hexagon



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14. Draw the possible number of lines of symmetry.



Circle



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15. From the above problem, complete the following table.

	Shape	Number of lines of symmetry
i)	Equilateral triangle	
ii)	Isosceles triangle	
iii)	Scalene triangle	
iv)	Rhombus	
v)	Hexagon	
vi)	Circle	



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16. Write any five man made things which have two lines of symmetry.



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17. Write any five daigrams which have two or more more than two lines of symmetry.



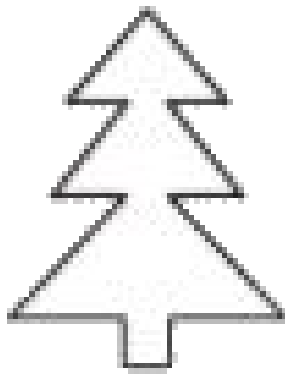
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18. Find the number of lines of symmetry for the following shapes.



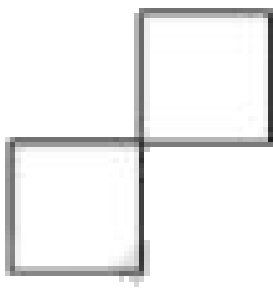
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19. Find the number of lines of symmetry for the following shapes.



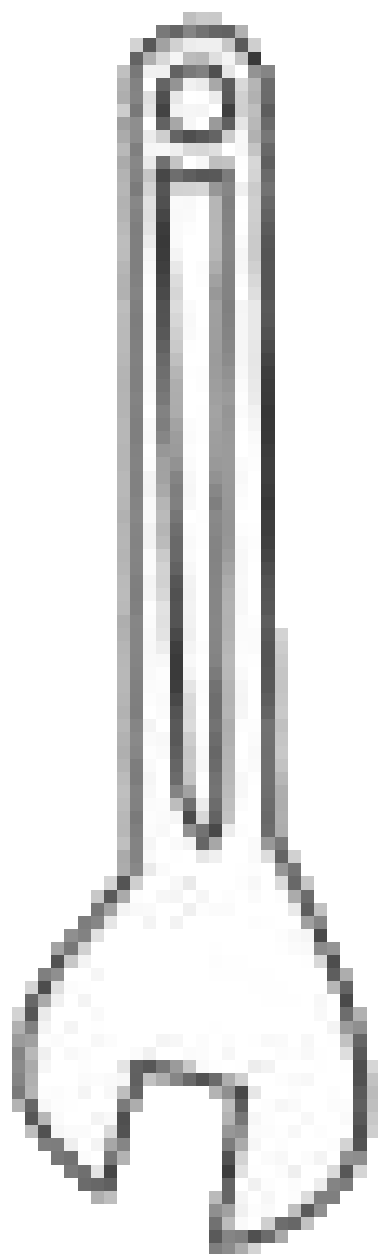
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20. Find the number of lines of symmetry for the following shapes.



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21. Find the number of lines of symmetry for the following shapes.





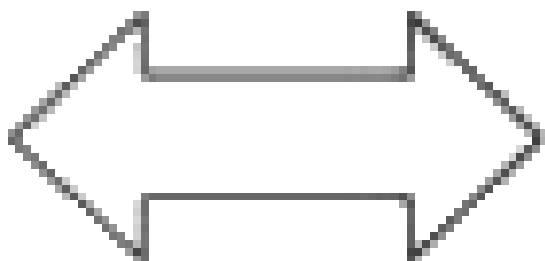
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22. Find the number of lines of symmetry for the following shapes.



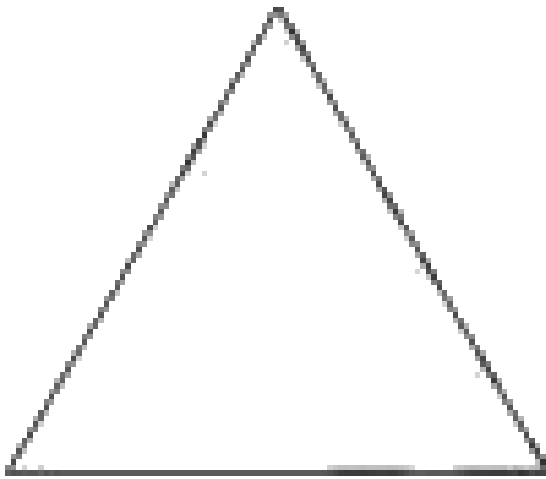
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23. Find the number of lines of symmetry for the following shapes.



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24. Draw the possible number of lines of symmetry.

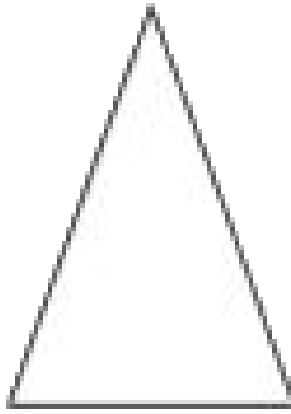


Equilateral triangle



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25. Draw the possible number of lines of symmetry.

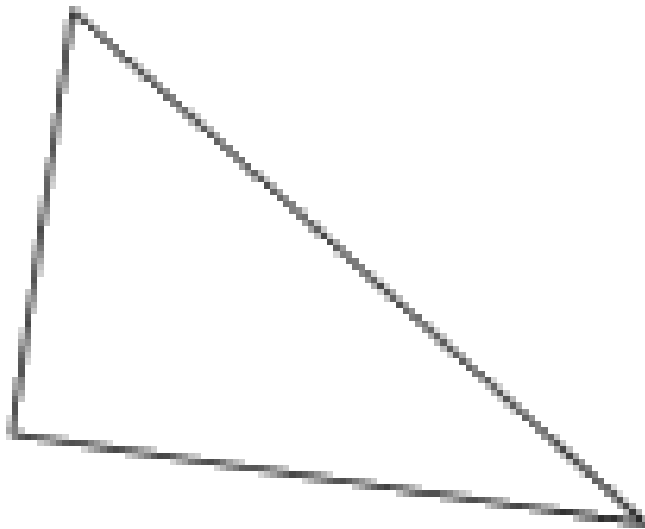


Isosceles triangle



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26. Draw the possible number of lines of symmetry.

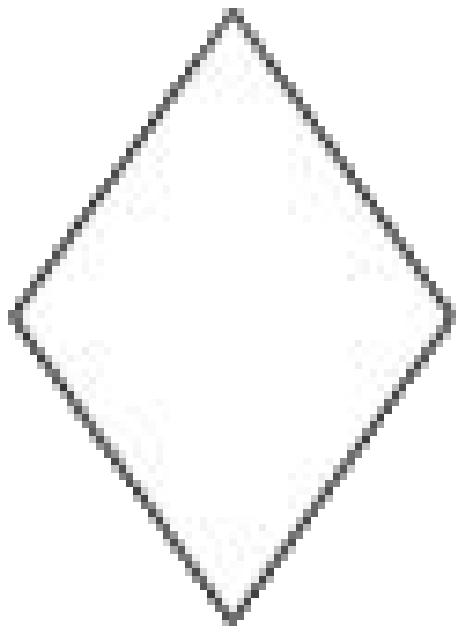


Scalene triangle



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27. Draw the possible number of lines of symmetry.

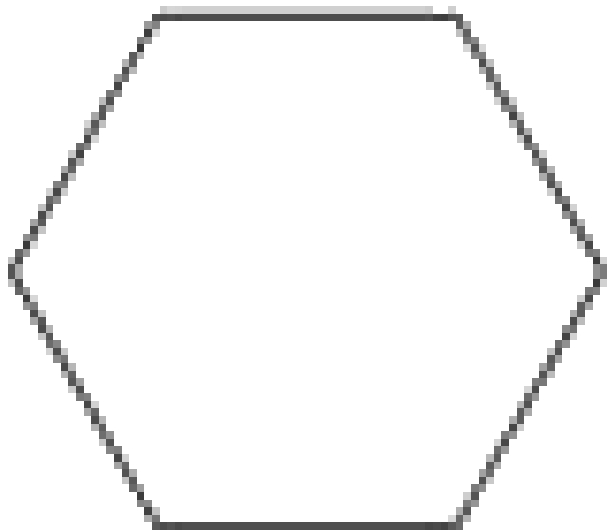


Rhombus



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28. Draw the possible number of lines of symmetry.

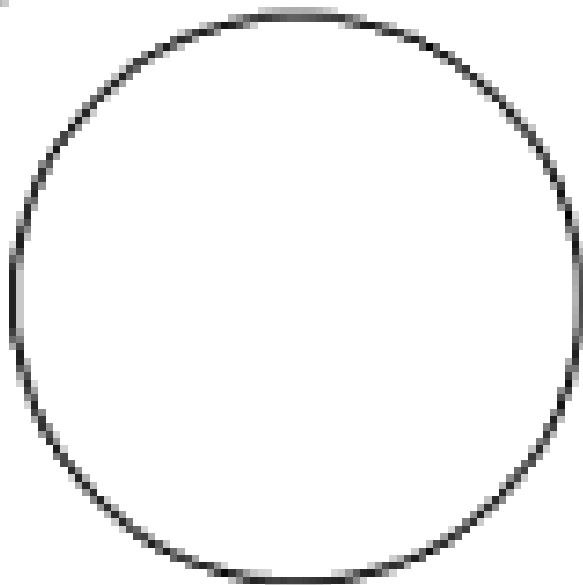


Hexagon



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29. Draw the possible number of lines of symmetry.



Circle



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30. complete the following table.

Shape	Number of lines of symmetry
Equilateral triangle	
Isosceles triangle	
Scalene triangle	
Rhombus	
Hexagon	
Circle	



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