Symmetry   1

<1M>

1.A line segment is Symmetrical about its ---------- bisector

(A) Perpendicular   (B) Parallel   (C) Line   (D) Axis

2.How many lines of symmetry does a reactangle have?

(A) Four   (B) Three   (C) Two   (D) None of them

3.Line of symmetry of given figure

(A) Horizontal   (B) Vertical   (C) Both of them (a) and (b)   (D) None of them

4.Indicate the line of symmetry in the following figure.

5.Give any two examples of symmetrical objects from your everyday life.

6.What is the name of the line which divides the figure into two identical halves?

7.How many lines of symmetry does the following figure have?

8.A figure can have only one line of symmetry. (True/ false).

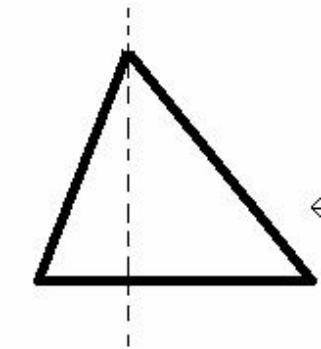9.Identify the no. of line of symmetry in the following figure.
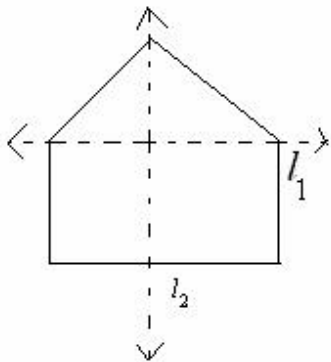

10.Whena figure is said to have line symmetry?

11.Is the following figure symmetrical?

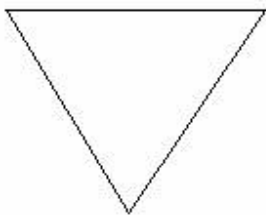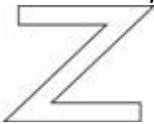12. For the figure, which one is the mirror line l_2 or $\overline{l_1}$?

13. Draw the line of symmetry in the following figure
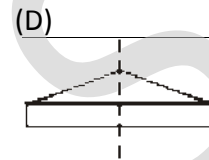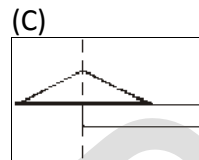

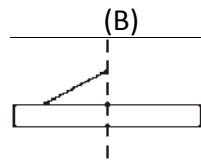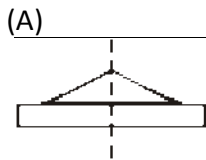14. Line of symmetry in given figure
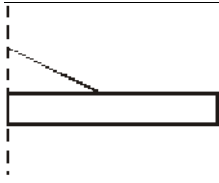

(A) Horizontal   (B) Vertical   (C) Diagonal   (D) None

15. Complete the figure so that the dotted line is the line of symmetry.
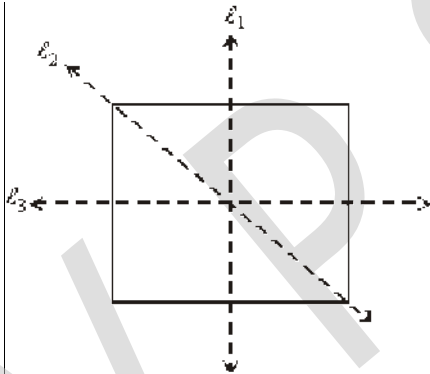
(A)   (B)   (C)   (D)

16. The English alphabet has [figure] how many lines of symmetry?
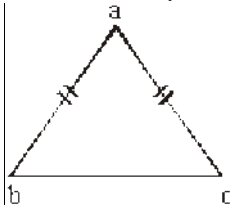(A) One   (B) Two   (C) Four   (D) None

17. Identify the line of symmetry of a rectangle?

(A) l_1 (B) l_2 (C) l_3 (D) l_1, l_3 both

18. Line of symmetry of English letter [figure] is
(A) Horizontal   (B) Vertical   (C) Diagonal   (D) None

19. How many lines of symmetry does an isosceles triangle has?

(A) One   (B) Two   (C) Three   (D) Four

20. How many symmetrical lines in the given figure?

(A) Two   (B) One   (C) Three   (D) None of them

21. What is the line of symmetry of a line segment?
(A) A line passes through I end point of line segment and perpendicular to it
(B) A line passes through II end point of line segment and perpendicular to it
(C) A line passes through Centre point of line segment and perpendicular to it
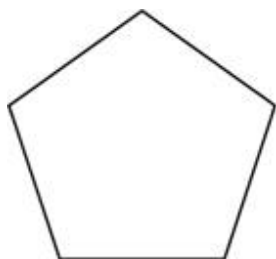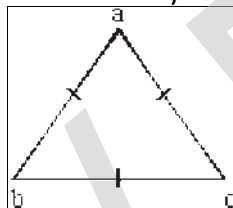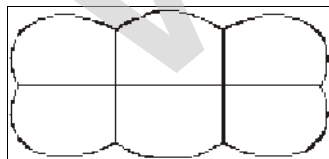(D) None

22. Line of symmetry of English letter is
(A) Horizontal   (B) Vertical   (C) Diagonal   (D) None

23. How many lines of symmetry does an equilateral triangle has?
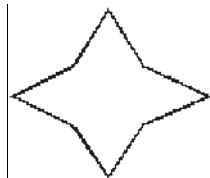

(A) One   (B) Two   (C) Three   (D) Four

24. Find the number of lines of symmetry?

(A) One   (B) Two   (C) Three   (D) Four

25. Find the number of lines of symmetry

(A) One   (B) Two   (C) Three   (D) Four
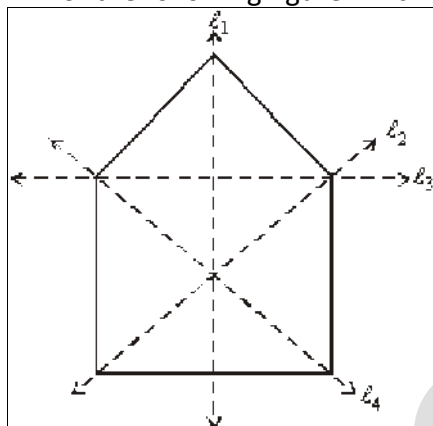
Symmetry 5

26. Line of symmetry of English letter is
(A) Horizontal   (B) Vertical   (C) Diagonal   (D) None

27. For the following figure which one is the mirror line

(A) l_1 (B) l_2 (C) l_3 (D) l_4

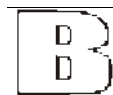28. Line of symmetry of English letter is
(A) Horizontal   (B) Vertical   (C) Diagonal   (D) None
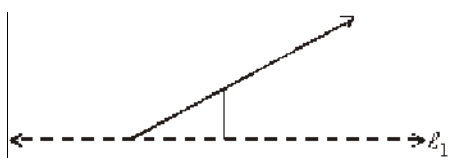
29. Line of symmetry of English letter is
(A) Horizontal   (B) Vertical   (C) Diagonal   (D) None

30. How many lines of symmetry do a square has?
(A) One   (B) Two   (C) Three   (D) Four

31. In the given figure line l_1 is the line of symmetry completes the figure to be symmetric about line l_1.
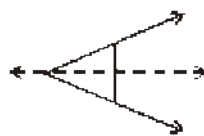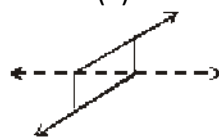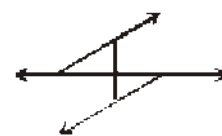
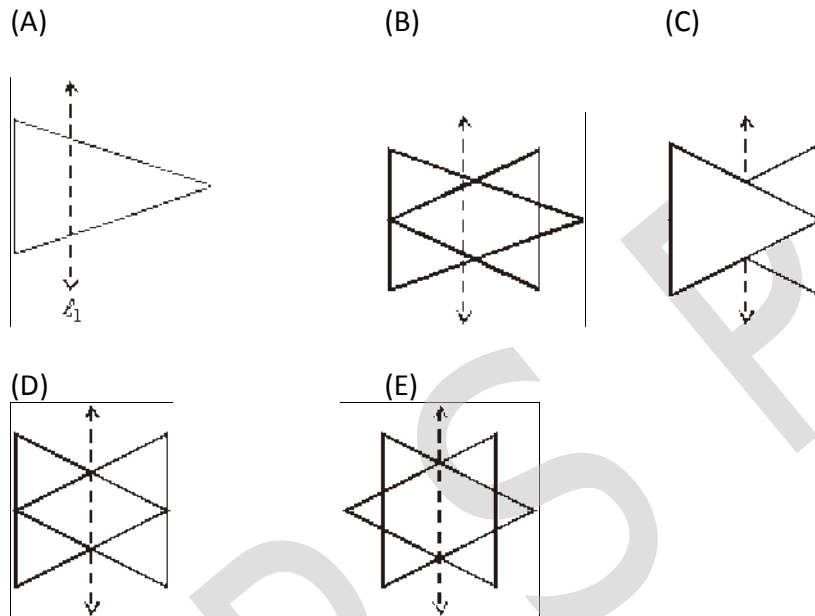(A)   (B)   (C)

(D)   (E)

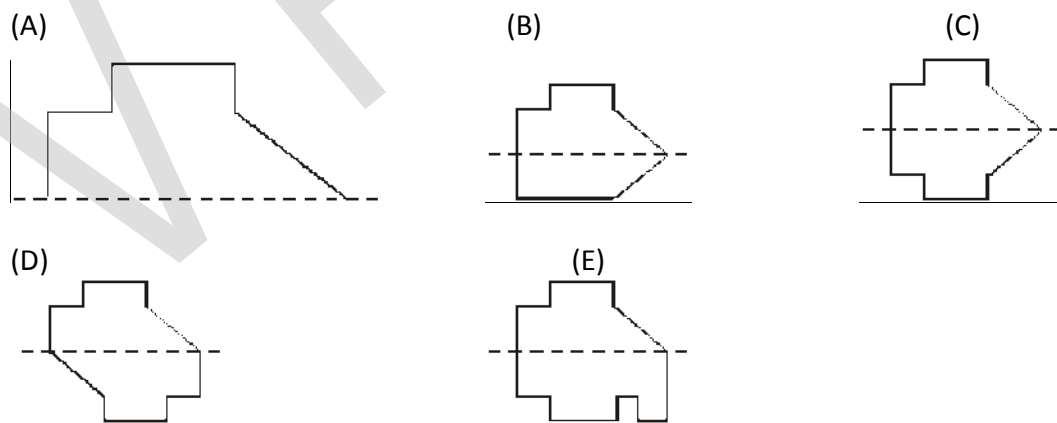32. How many lines of symmetry does a parallelogram have?

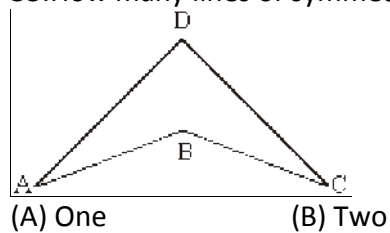(A) One   (B) Two   (C) Four   (D) None

33.In the adjoining figure line l_1 is the line of symmetry. Draw the image of the triangle and complete the figure so that it becomes symmetrical about line l_1.

(A)   (B)   (C)

(D)   (E)

34.Complete the given figure in such a way that the dotted line is the line of symmetry.

(A)   (B)   (C)

(D)   (E)

35.How many lines of symmetry are there in the given figure?

(A) One   (B) Two   (C) Three   (D) Four

36.Line of symmetry of in given figure

(A) Horizontal (B) Vertical (C) Diagonal (D) None

37.Line of symmetry in given figure

(A) Horizontal (B) Vertical (C) Diagonal (D) None

38.Line of symmetry of English letter

(A) vertical (B) horizontal (C) both of them (D) none of them

39.How many lines of symmetry does a circle have?
(A) Countless (B) Two (C) Four (D) Three

40.A scalene triangle has……..
(A) One line of symmetry (B) Two line of symmetry
(C) Four line of symmetry (D) No line of symmetry
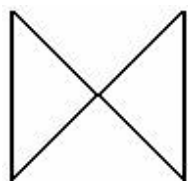
41.Line of symmetry in given figure is-

(A) Vertical. (B) Horizontal. (C) Diagonal. (D) Both (a) and (b).

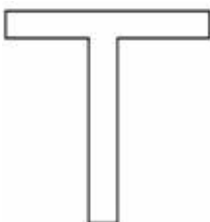42.How many symmetrical lines can be constructed in the given figure?

(A) 3   (B) 6   (C) 4   (D) 2

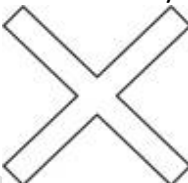43. Line of symmetry in English letter 'T' is-

(A) Vertical.   (B) Horizontal.   (C) Both of them.   (D) None of them.

44. A figure has line symmetry if a line can be drawn dividing the figure into……………. identical parts. The line is called a line of symmetry.
(A) Three   (B) Four   (C) Two   (D) None of them.

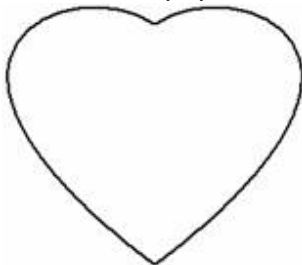45. How many lines of symmetry are there in the given figure?

(A) One   (B) Two   (C) Three   (D) Four

46. The line symmetry is closely related to……….
(A) Mirror deflection.   (B) Mirror reflection.   (C) Both of them.   (D) None of them.

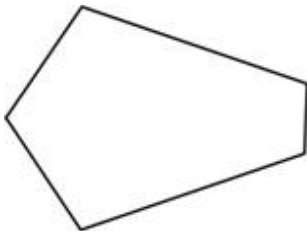47. How many symmetrical lines are there in the given figure?

(A) 1   (B) 2   (C) 3   (D) 4

48. In the given figure, line of symmetry is-

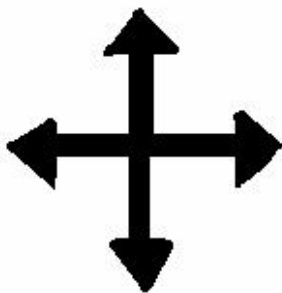(A) Horizontal. (B) Vertical. (C) Both of them. (D) None of them.

49.A kite-shaped figure has how many line of symmetry
(A) One (B) Two (C) Three (D) Four

50.A circle has how many lines of symmetry
(A) Two (B) Three (C) Infinite (D) None

51.Is the following figure symmetrical?

<2M>

52.Is the figure symmetrical? If yes, find its axis of symmetry.

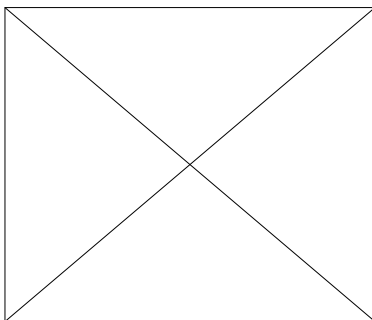53.Determine whether the following figures are symmetrical?
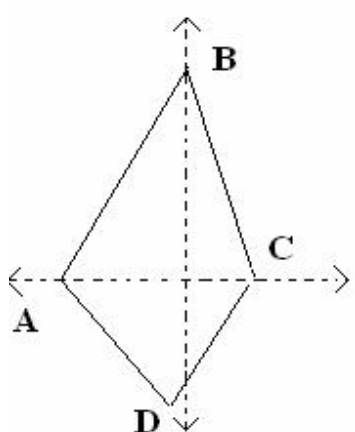
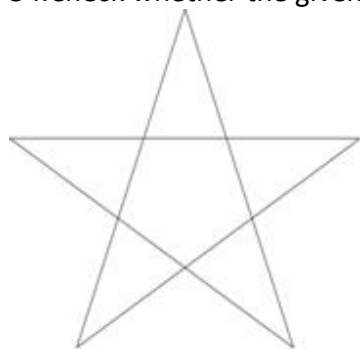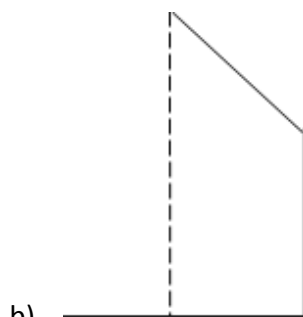

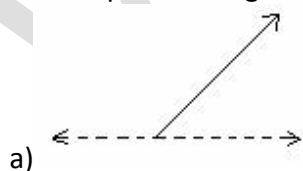Fig 1

Fig 2

54. Check whether the given figure is symmetrical or not?

55. Complete the figure along the line of symmetry.
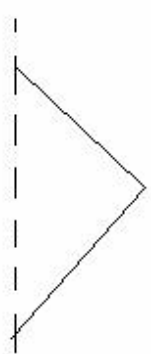
a)

b)

<javascript:>

56. What is reflection symmetry.

57.Give some of the applications of symmetry?

58.Can you draw a figure whose mirror image is identical to the figure itself?
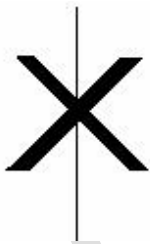
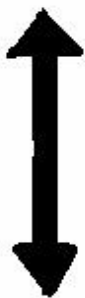59.Complete the figure along the line of symmetry.

(a)   (b)

60.Find out if the figure is symmetrical or not?

61.Count the number of lines of symmetry in the figure.

62.Consider the letters of English alphabets A to Z. List among them the letterswhich have

(a) vertical lines of symmetry   (b) horizontal lines of symmetry
(c) no lines of symmetry
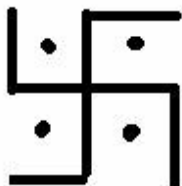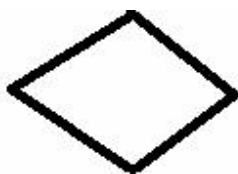
<3M>

63. Draw the mirror images of the following:

(a)   (b)

64. Following letters of the English alphabet are symmetrical about a line.

   Identify a line of symmetry in each case

   (a) A   (b) W   (c) Y   (d) B   (e) E
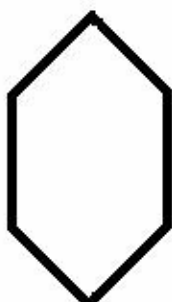
65. Complete the figure with dotted lines along the axis of symmetry.

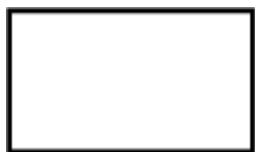66. How many lines of symmetry does the following figure have?

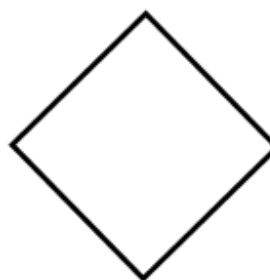a)   b)   c)   d)

<5M>

67. 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.

68. Draw the mirror images of the following figures:

(a)   (b)   (c)   (d)

c   N   E   B

69. Complete the table :

Shape	Rough Figure	No. of lines of symmetry
Equilateral Triangle		
Square		
Rectangle		
Circle		

70. On a paper, sketch the following :

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

(b) A quadrilateral with both horizontal and vertical lines of symmetry.

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

(d) A hexagon with exactly two lines of symmetry.

(e) An English alphabet with both horizontal and vertical axis.