

Symmetry

Question 1.

Letter 'E' of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about.

- (a) a horizontal mirror
- (b) a vertical mirror
- (c) both
- (d) None of these

Answer: (a) a horizontal mirror

Question 2.

Which letters have no lines of symmetry J, A, H, N.

- (a) J, A
- (b) A, H
- (c) H, N
- (d) J, N

Answer: (d) J, N

Question 3.

Which of the following letters of the English alphabet has a vertical line of symmetry?

- (a) F
- (b) T
- (c) E
- (d) G

Answer: (b) T

Question 4.

An equilateral triangle has :

- (a) 1 line of symmetry

- (b) 2 lines of symmetry
- (c) 3 lines of symmetry
- (d) None of these

Answer: (c) 3 lines of symmetry

Question 5.

How many lines of symmetry an Indian flag have:

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Answer: (a) 1

Question 6.

How many lines of symmetry of a rectangle has :

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Answer: (b) 2

Question 7.

Which of the following alphabets has many lines of symmetry?

- (a) A
- (b) O
- (c) Q
- (d) B

Answer: (b) O

Question 8.

How many lines of symmetries are there in rectangle?

- (a) 4
- (b) 0
- (c) 1
- (d) None of these

Answer: (d) None of these

Question 9.

A rhombus is symmetrical about

- (a) the line joining the midpoints of its adjacent sides.
- (b) each of its diagonals.
- (c) perpendicular bisector of each of its sides.
- (d) its sides.

Answer: (b) each of its diagonals.

Question 10.

A circle has :

- (a) one line of symmetry
- (b) 2 lines of symmetry
- (c) 3 lines of symmetry
- (d) infinite number of lines of symmetry

Answer: (d) infinite number of lines of symmetry

Question 11.

Which of the following has 5 lines of symmetry?

- (a) A circle.
- (b) A regular pentagon.
- (c) A triangle.
- (d) A quadrilateral.

Answer: (b) A regular pentagon.

Question 12.

How many lines of symmetry does a circle have?

- (a) One
- (b) Two
- (c) Three
- (d) Many

Answer: (d) Many

Question 13.

How many lines of symmetry of a parallelogram has :

- (a) 1
- (b) 2
- (c) Zero
- (d) None of these

Answer: (c) Zero

Question 14.

Letter 'H' of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about.

- (a) Neither horizontal nor vertical
- (b) Both horizontal nor vertical
- (c) a horizontal mirror
- (d) a vertical mirror

Answer: (b) Both horizontal nor vertical

Question 15.

How many lines of symmetry of a human face has :

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Answer: (a) 1

Question 16.

Which of the following alphabets has no line of symmetry?

- (a) A
- (b) B
- (c) Q
- (d) O

Answer: (c) Q

Question 17.

Letter 'B' of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about.

- (a) a horizontal mirror
- (b) a vertical mirror
- (c) both
- (d) None of these

Answer: (a) a horizontal mirror

Question 18.

Which of the following letters have reflection line of symmetry about vertical mirror?

- (a) C
- (b) B
- (c) V
- (d) Q

Answer: (c) V

Question 19.

How many lines of symmetries are there in a rhombus?

- (a) 1
- (b) 4
- (c) 3
- (d) 2

Answer: (d) 2

Question 20.

Letter D has :

- (a) 1 line of symmetry
- (b) 2 lines of symmetry
- (c) 3 lines of symmetry
- (d) None of these

Answer: (a) 1 line of symmetry

Question 21.

Letter 'G' of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about.

- (a) a horizontal mirror both
- (b) a vertical mirror

- (c) both
- (d) Neither horizontal nor vertical

Answer: (d) Neither horizontal nor vertical

Question 22.

How many lines of symmetry of a English alphabet O has :

- (a) 1
- (b) 2
- (c) 3
- (d) Infinite number

Answer: (b) 2

Question 23.

The order of the rotational symmetry of the parallelogram about the centre is

- (a) 1
- (b) 0
- (c) 3
- (d) 2

Answer: (b) 0

Question 24.

The mirror image of 'W', when the mirror is placed vertically:

- (a) U
- (b) M
- (c) V
- (d) W

Answer: (d) W

Question 25.

How many lines of symmetries are there in a square?

- (a) 1
- (b) 2
- (c) 4
- (d) 3

Answer: (c) 4

Question 26.

A scalene triangle has the number of symmetry :

- (a) 1
- (b) 2
- (c) 3
- (d) No lines of symmetry

Answer: (d) No lines of symmetry

Question 27.

How many lines of symmetry of 9 scissors has :

- (a) 1
- (b) zero
- (c) 2
- (d) 4

Answer: (a) 1

Question 28.

A regular pentagon has :

- (a) 1 line of symmetry
- (b) 3 lines of symmetry
- (c) 5 lines of symmetry
- (d) None of these

Answer: (c) 5 lines of symmetry

Question 29.

A parallelogram has _____ lines of symmetry:

- (a) 0
- (b) 1
- (c) 2
- (d) 3

Answer: (a) 0

Question 30.

In a $\triangle ABC$, $AB = AC$ and $AD \perp BC$, $BE \perp AC$ and $CF \perp AB$. Then about which of the following is the triangle symmetrical?

- (a) AD
- (b) BE
- (c) CF
- (d) AC

Answer: (a) AD

Question 31.

How many lines of symmetry of a compass has :

- (a) zero
- (b) 1
- (c) 2
- (d) 3

Answer: (a) zero

Question 32.

How many lines of symmetry does a rectangle have?

- (a) One
- (b) Two
- (c) Three
- (d) Many

Answer: (b) Two

Question 33.

Letter 'M' of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about.

- (a) a vertical mirror
- (b) a horizontal mirror
- (c) both
- (d) None of these

Answer: (a) a vertical mirror

Question 34.

A letter A has:

- (a) Horizontal line of symmetry
- (b) Vertical line of symmetry

- (c) Neither vertical nor horizontal
- (d) None of these

Answer: (b) Vertical line of symmetry

Question 35.

How many lines of symmetries are there in an isosceles triangle?

- (a) 2
- (b) 1
- (c) 3
- (d) None of these

Answer: (b) 1

Question 36.

Letter 'D' of the English alphabet have reflectional symmetry (i.e., symmetry related to mirror reflection) about.

- (a) a vertical mirror
- (b) both
- (c) a horizontal mirror
- (d) None of these

Answer: (c) a horizontal mirror

Fill in the blanks.

1. Isosceles triangle has lines of symmetry.

Answer: one

2. Alphabet V has lines of symmetry.

Answer: one

3. Rhombus has lines of symmetry.

Answer: two

4. Egg has lines of symmetry.

Answer: one

5. Scalene triangle has lines of symmetry.

Answer: zero

6. The square has lines of symmetry.

Answer: four

7. Rectangle has lines of symmetry.

Answer: two

8. Rectangular table top has lines of symmetry.

Answer: two

Match the following:

1.

(a) Circle	(i) two lines of symmetry
(b) Alphabet X	(ii) one line of symmetry
(c) Alphabet B	(iii) Infinite number of symmetry
(d) Equilateral triangle	(iv) six lines of symmetry
(e) Regular hexagon	(v) three lines of symmetry

Answer:

(a) Circle	(iii) Infinite number of symmetry
(b) Alphabet X	(i) two lines of symmetry
(c) Alphabet B	(ii) one line of symmetry
(d) Equilateral triangle	(v) three lines of symmetry
(e) Regular hexagon	(iv) six lines of symmetry
