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		
7 mswer. (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

Ouestion 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

Ouestion 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
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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

Ouestion 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.

Match the following:

Answer: two

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