

Class: 6
Subject: Mathematics
Topic: Symmetry
No. of Questions: 18

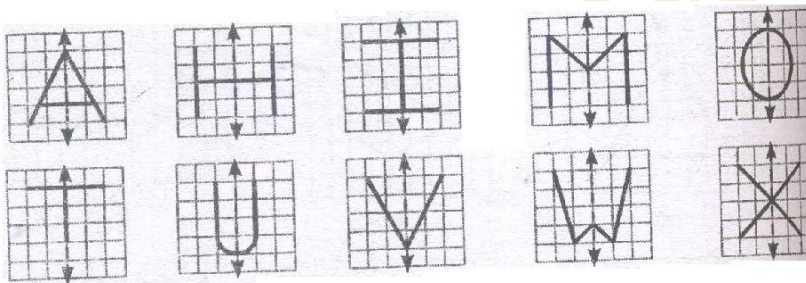
Q1. List any four symmetrical objects from your home or school.

Ans. Four examples are the table top, the computer disc, the blackboard and a pair of scissors.

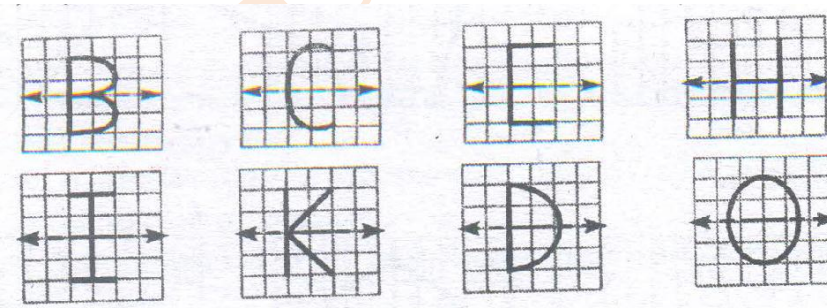
Q2. Consider the letters of English alphabets A to Z. List among them the letters which have

- (a) Vertical lines of symmetry (like A)
- (b) Horizontal lines of symmetry (like B)
- (c) No lines of symmetry (like Q)

Ans. (a) English alphabets having vertical lines of symmetry are: A, H, I, M, O, T, U, V, W and X.



(b) English alphabets having horizontal lines of symmetry are: B, C, D, E, H, I, K, and O.



(c) English alphabets having no lines of symmetry are F, G, J, L, N, P, Q, R, S, Y, and Z.

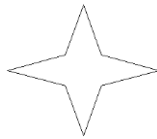
Q3. If you are 100 cm in front of a mirror, where does your image appear to be? If you move towards the mirror, how does your image move?

Ans. The image is appeared at 100 cm.

If we move towards the mirror, the image also move.

Q4. Find the number of lines of symmetry in each of the following shapes. How will you check your answer?

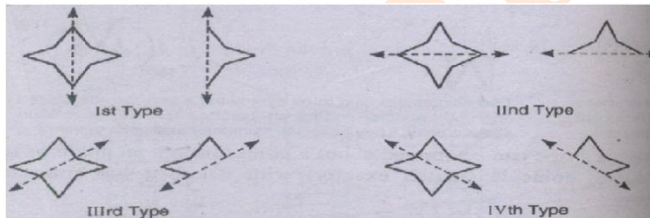
(a)



(b)

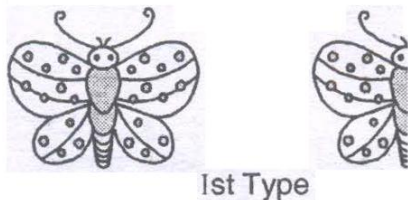


Ans. (a)



Thus, four line of symmetry can be drawn in this figure.

(b)



Thus, one lines of symmetry can be drawn in this figure.

Q5. Write the types of symmetry? Also Explain them.

- Ans. 1. Symmetry about a Line
2. Symmetry about a point
3. Symmetry about a plane.

Q.6 A figure has _____ symmetry if a line can be drawn dividing the figure into two identical parts

Ans. Line

Q.7 The number of lines of symmetry of a Isosceles triangle is

Ans. Only one line of symmetry

Q.8 The number of lines of symmetry of a rectangle is

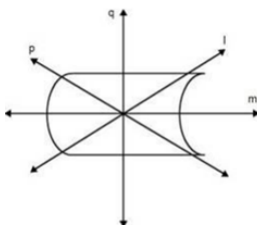
Ans. Two lines of symmetry

Q.9 Match the following :

Figures	line of symmetry
(a) Equilateral triangle	Four
(b) Square	many
(c) Circle	three

Ans. (a)- Three b)-four c)- Many

Q.10 In the figure below, the mirror line or the axis of symmetry is _____.



- A. Line q
- B. Line p
- C. Line l
- D. Line m

Ans. (D)

Q.11 The number of lines of symmetry of compass is

- A. 1
- B. 2
- C. 0
- D. None of these

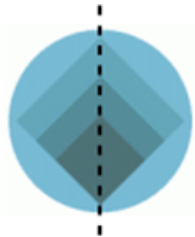
Ans. (A)

Q.12 Is the dotted line a line of symmetry?



Ans. No

Q. 13 Is the dotted line a line of symmetry?



Ans. Yes

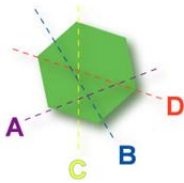
Q.14 Is the dotted line a line of symmetry?



Ans. Yes

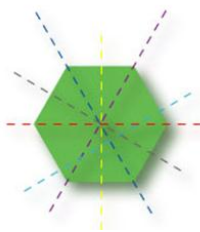
Q.15 Select the line of symmetry.

- A. a
- B. b
- C. c
- D. d



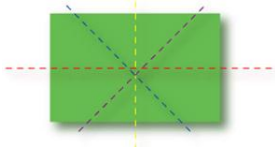
Ans. (D)

Q.16 How many lines of symmetry are in the shape?



Ans. 5 Lines

Q.17 How many lines of symmetry are in the shape?



Ans. 2 Lines

Q. 18 Is the dotted line a line of symmetry?



Ans. Yes.

askITians