## 

Class-7th

## Chepter-14:

## Symmetry

## Exercisc-14.1

Part-II

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Q. 7 State the number of lines of symmetry for the following figures:
(a) An equilateral triangle
(b) An isosceles triangle
(c) A scalene triangle
(d) A square
(e) A rectangle
(f) A rhombus
(g) A parallelogram
(h) A quadrilateral
(i) A regular hexagon
(j) A cricle

## Sol.

|  | Figures | Numbers of lines of symmetry |
| :---: | :---: | :---: |
| (a) | An equilateral triangle | Three lines of symmetry |
| (b) | An isosceles triangle | Only one line of symmetry |
| (c) | A scalene triangle | No line of symmetry |
| (d) | A square | Four lines of symmetry |
| (e) | A rectangle | Two lines of symmetry |
| (f) | A rhombus | Four lines of symmetry |
| (g) | A parallelogram | No line of symmetry |
| (h) | A quadrilateral | No line of symmetry |
| (i) | A regular hexagon | Six lines of symmetry |
| (j) | A cricle | infinitely many lines of symmetry. |

Q. 8. What letters of the English alphabet have reflectional symmetry (i.e., symmetry related to minnor reflection) about:
(a) a vertical mirror
(b) a horizontal mirror
(c) both horizontal and vertical mirrors.

Sol. Letter of the English alphabet having reflectional symmetry across:
(a) a vertical mirror
A, H, I, M, O, T, U, V, W, X, Y
(b) a horizontal mirror
B, C, D, E, H, I, K, O, X
(c) Both horizontal and vertical mirrors

O, X, I, H
Q.9. Give three examples of shapes with no line of symmetry.
Sol. Three examples of shapes with no line of symmetry are:
(1) A Scalene triangle
(2) A parallelogram
(3) Trapezium
(4) 'L' shaped buliding.
10. What other name can you give to the line of symmetry of:
(a) an isosceles triangle?
(b) a circle?

Sol. Other name to the line of symmetry of
(a) an isosceles triangle are median.
(b) a circle are diameter.

