

Exercise 17.4

Question: 1

The total number of lines of symmetry of a scalene triangle is

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

Solution:

- (d) none of these

This is because the line of symmetry of a scalene triangle is 0.

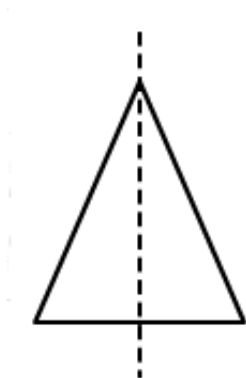
Question: 2

The total number of lines of symmetry of an isosceles triangle is

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

Solution:

- (a) 1



Question: 3

An equilateral triangle is symmetrical about each of its

- (a) altitudes
- (b) median
- (c) angle of bisectors
- (d) all of the above

Solution:

- (d) all the above

In equilateral triangle altitudes, angle bisectors and medians are all the same.



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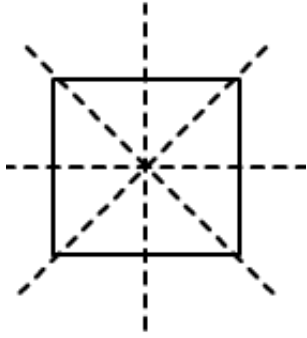
Question: 4

The total number of lines of symmetry of a square is

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

Solution:

- (d) 4



Question: 5

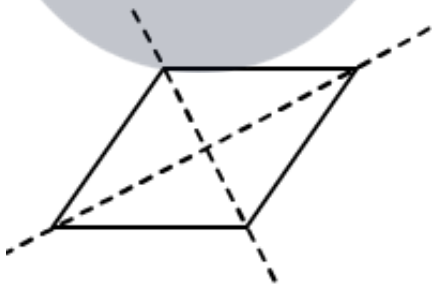
A rhombus is symmetrical about

- (a) each of its diagonals
- (b) the line joining the mid-points of its opposite sides
- (c) perpendicular bisectors of each of its sides
- (d) none of these

Solution:

(a)

Each of its diagonals



Question: 6

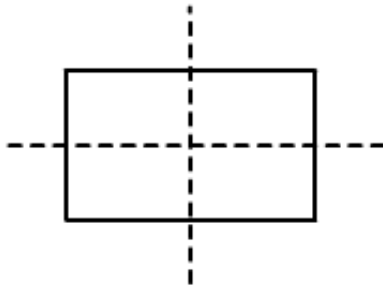
The number of lines of symmetry of a rectangle is

- (a) 0
- (b) 2
- (c) 4
- (d) 1



Solution:

(b) 2



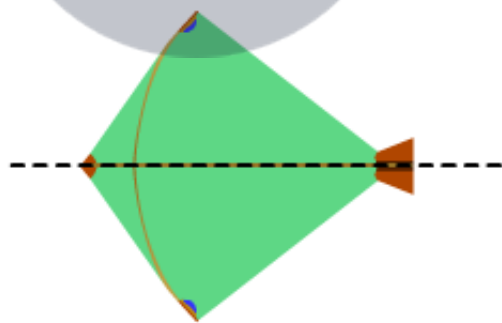
Question: 7

The number of lines of symmetry of a kite is

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

Solution:

(b) 1



Question: 8

The number of lines of symmetry of a circle is

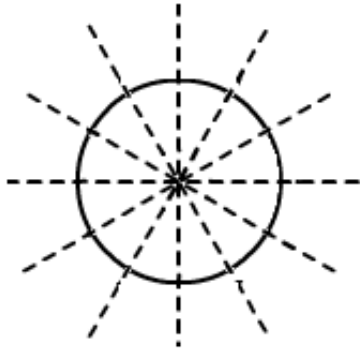
- (a) 0
- (b) 1
- (c) 4

(d) unlimited

Solution:

(d) Unlimited

A circle has an infinite number of symmetry all along the diameters. It has an infinite number of diameters



Question: 9

The number of lines of symmetry of a regular hexagon is

(a) 1

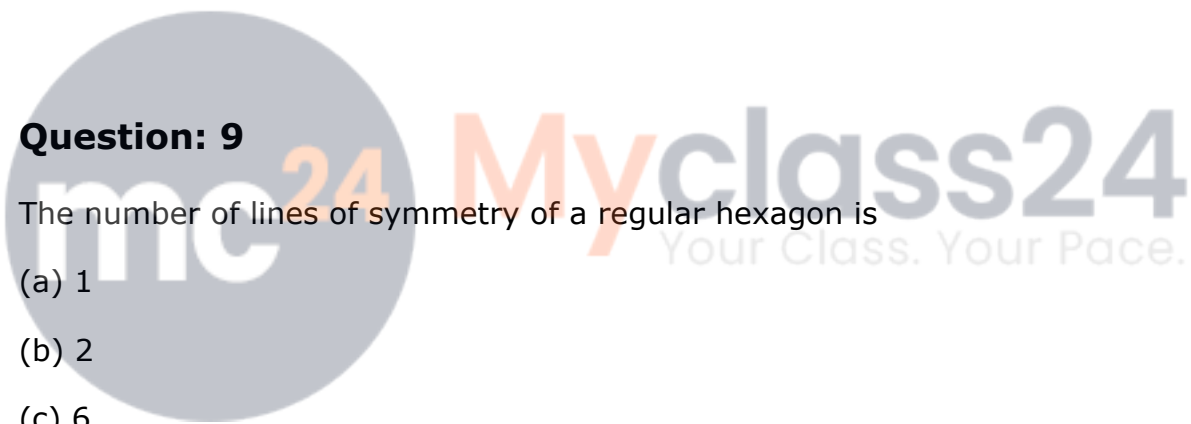
(b) 2

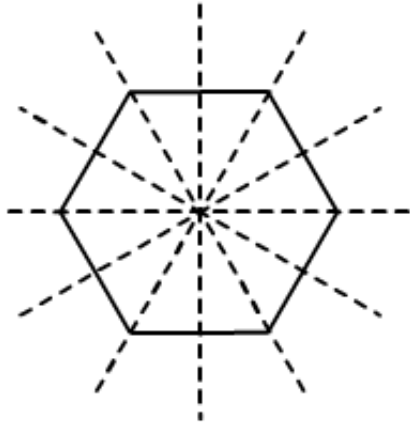
(c) 6

(d) 8

Solution:

(c) 6





Question: 10

The number of lines of symmetry of an n – sided regular polygon is

- (a) n
- (b) $2n$
- (c) $n/2$
- (d) none of these

Solution:

- (a) n

The number of lines of symmetry of a regular polygon is equal to the sides of the polygon. If it has ' n ' number of sides, then there are ' n ' lines of symmetry

Question: 11

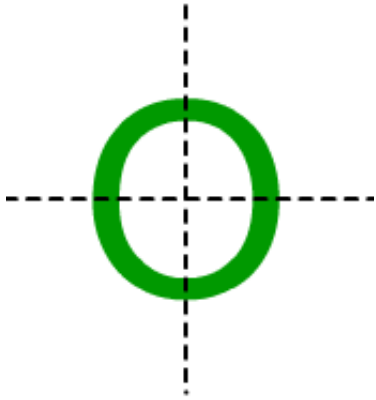
The number of lines of symmetry of the letter O of the English alphabet is

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

Solution:

- (c) 2





Question: 12

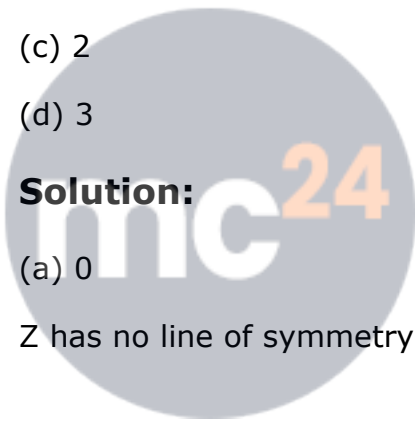
The number of lines of symmetry of the letter Z of the English alphabet is

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

Solution:

- (a) 0

Z has no line of symmetry



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