chapter-18 Symmetry Exercise-18.1

Solution - 01:-

- (i) 3 Lines of symmetry for An equilateral triangle
- (ii) one line of symmetry for An isosceles triangle.
- (iii) 'o' Lines of symmetry for A scalene Triangle
- (1V) 2 Lines of symmetry for A rectangle
- (V) 2 Lines of summetry for A shombus
- (VI) 4 Lines of symmetry for A square.
- (VII) O Lines of symmetry for A Parallelogram
- (VIII) O Lines of symmetry for A quadrilateral
- (ix) 5 Lines of symmetry for A regular pentagon.
- (x) 6 Lines of symmetry for A regular hexagon
- (XI) Infinitely many Lines of Symmetry for A circle
- (XII) one line of symmetry for A semi-circle.

Solution -02:-

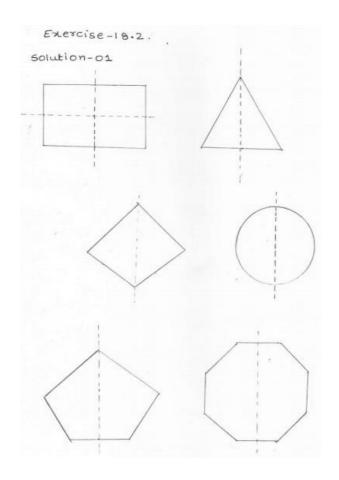
- (1) Altitude is the Line of symmetry of An isosceles
- (ii) K chrote is the +
- (i) Diameter is the Line of Symmetry of An

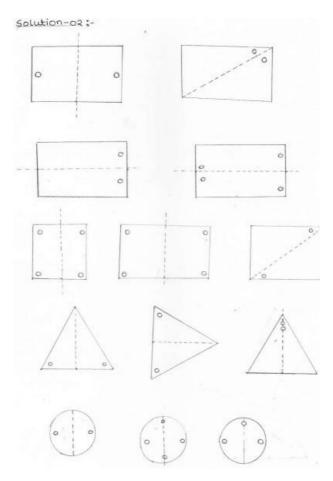
Solution-03:

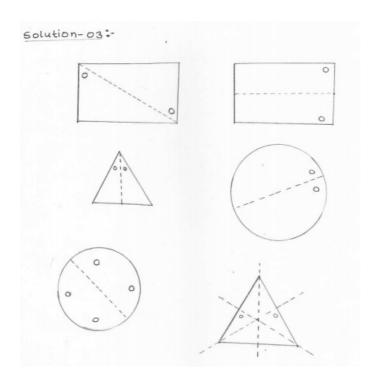
Three examples of shapes with no Line of Symmetry are

- (i) Parallelogram
- (ii) A scalene Triangle
- (iii) A quadrilateral

chapter-18 Symmetry Exercise-18.2







Exercise-18.3

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Exercise-18.3.

Solution 1:-

(i) order of rotational symmetry is '4'

(ii) order of rotational symmetry is '3'

(iii) order of rotational symmetry is '3'

(iv) Order of rotational symmetry is '4'

(v) order of rotational symmetry is '2'

(vi) oder of rotational symmetry is '4'

(vii) order of rotational symmetry is '4'

(vii) order of rotational symmetry is '5'

(viii) order of rotational symmetry is '5'

(viii) order of rotational symmetry is '5'

(vii) order of rotational symmetry is '3'
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Solution - 2:-

An equilateral triangle, A square have both Line Symmetry and rotational Symmetry.

Solution - 03:-

→ A semicircle has a Line symmetry but does not have rotational symmetry

(Or

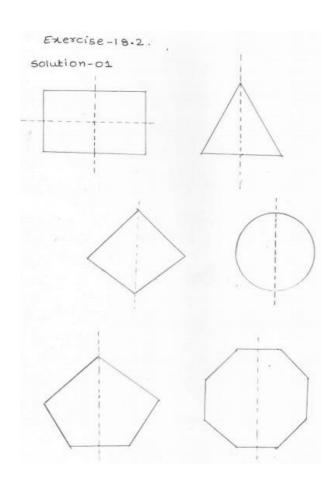
-> An isosceles triangle has-a line of Symmetry but does not have rotational symmetry.

solution-04:-

→ A scalene Triangle has neither Line of Symmetry hor a rotational Symmetry.

Solution - 05:

- (1) English dephabet which has notine of symmetry is 'Z'
- (i) English alphabet which has rotational symmetry of order 2 is 'N'

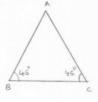


Solution = 07:-

(i) An equilateral Triangle



(ii) An isosceles Triangle



olution-08;			
FIGURES	centre of rotation	order of rotation	Angle of rotation
59 uare	Point of intersection of Linesegmentsoing the mid points of oppside	ns 4.	98
Rectangle	Point of intersection of the Line segments in wing the midPoints of opp side	2	180°
Rhom bous	Point of intersection		180
Equipteral Triangle	Point of intersection	3	1200
Regular hexagon	centre of heragon	6	60°
circle	centre of circle	unlimited	Any Amle
Semi-circle	NII	Nill	Nill

Solution - 09:					
English Alphabet Letter	Line Symmetry	Number of Lines of symmetry	Rotational Symmetry	Order of Yotational Symmetry	
7	No	0	Yes	2	
5	No	0	Yes	2	
Н .	Yes	2	Yes	2	
		4	Yes	2_	
0	Yes	1	No	0	
E	No	0	Yes	2	
C	Yes	1	No	٥.	