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
- (111) 'o' Lines of symmetry for A scalene Triangle
- (1v) 2 Lines of symmetry for A rectangle
- (V) 2 Lines of symmetry for A rhombus
- (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:-

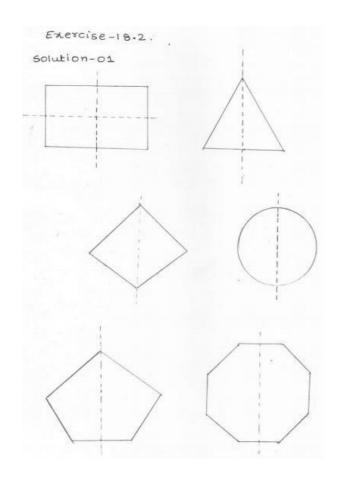
- (1) Altitude is the Line of symmetry of An isosceles
 Triangle.
- (ii) K gircle is the +
- (i) Diameter is the Line of Symmetry of An

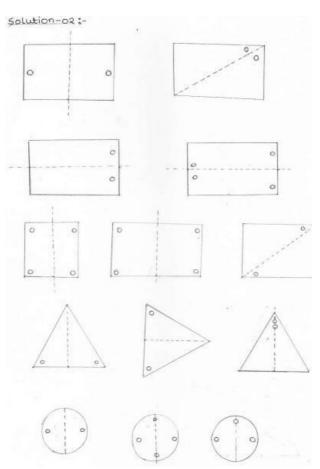
Solution-03:

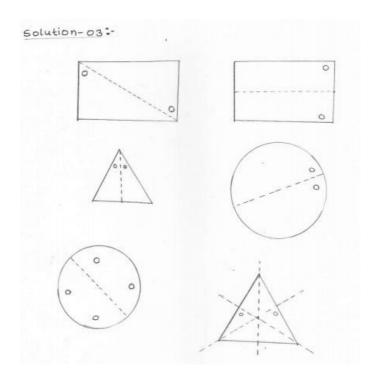
Three examples of shapes with no Line of Symmetry are

- (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 '6'

(IX) 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

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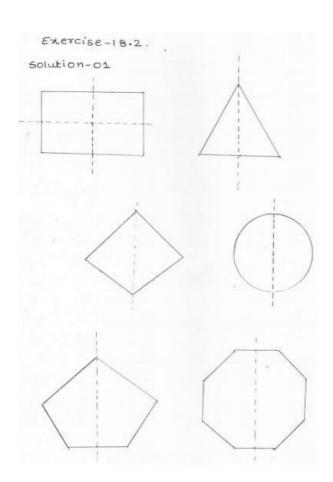
→ An isosceles triangle has-a line of Symmetry but does not have rotational symmetry.

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'

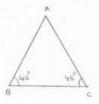


Solution = 07:-

i) An equilateral Triangle



(ii) An isosceles Triangle



Solution-08; centre of rotation FIGURES order of rotation Angle of rotation Point of introction of Linesepre historians the mid faints of off sides from the character of intersections the mid faints of off sides from the character of t 59 ware 4. 90 Rectangle 1800 2 Point of intersection Rhom bous 2 1800 Point of intersections Equipteral 3 1200 Triangle Regular hexagon 60 centre of herago 6 circle centre of circle unlimited Amy Amle Semi-circle NII NiII Nill

English Alphabet Letter	Line Symmetry	Number of Lines of symmetry	Robational Symmetry	order of rotational
7	No	0	Yes	2
5	No	0	Yes	2
н	Yes	2	Yes	Q
	Yes	4	Yes	2_
O E	465	1	No	0
7	No	0	Yes	2
c	yes	1	No	٥.