## AHLCON PUBLIC SCHOOL, MAYUR VIHAR, PHASE - 1, DELHI - 91

ASSIGNMENT: CH - $\mathbf{1 3}$
Class: VI Subject: MATHEMATICS Topic: Symmetry
Q. 1 Find the number of lines of symmetry in
i) An equilateral triangle.
ii) An isosceles triangle
iii) A rectangle
iv) A square
v) A kite
vi) A parallelogram
vii) A circle
viii) A semicircle
ix) A regular Hexagon
x) A regular pentagon
(Draw all these figures on graph paper and then show line(s) of symmetry).
Q. 2 Study the letters below.
[NEWAGEMATHEMATICS]
i) Which letter(s) has a vertical line of symmetry?
ii) Which letter(s) has a horizontal line of symmetry?
iii) Which letter(s) has two lines of symmetry?
iv) Which letter(s) has No line of symmetry?
Q. 3 On a graph paper sketch a
i) Quadrilateral with both horizontal and vertical line of symmetry.
ii) Triangle with horizontal line of symmetry but no vertical line of symmetry.
Q. 4 Complete the diagram to make it symmetric along $l$.

Q. 5 Write all the English alphabets and their mirror images one is done for you.

## EH

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Q6
Match the following:

| Shape | Number of lines of symmetry |  |
| ---: | :--- | :--- |
| (i) | Isosceles triangle | (a) 6 |
| (ii) | Square | (b) 5 |
| (iii) | Kite | (c) 4 |
| (iv) | Equilateral triangle | (d) 3 |
| (v) | Rectangle | (e) 2 |
| (vi) | Regular hexagon | (f) 1 |
| (vii) | Scalene triangle | (g) 0 |

Q7

Open your geometry box. There are some drawing tools. Observe them and complete the following table:

|  | Name of the tool | Number of lines <br> of symmetry |
| ---: | :--- | :---: |
| (i) | The Ruler | - |
| (ii) | The Divider | - |
| (iii) | The Compasses | - |
| (iv) | The Protactor | - |
| (v) | Triangular piece with two equal sides | - |
| (vi) | Triangular piece with unequal sides | - |

Q. 8 Fill ups
i) A $\qquad$ divides a figure in to two symmetric parts.
ii) A rhombus has $\qquad$ lines of symmetry.
iii) Other name of line of symmetry is $\qquad$
iv) A $\qquad$ triangle has no line of symmetry.
v) A rhombus is symmetrical about its $\qquad$ .
vi) The digits having only two lines of symmetry are $\qquad$ and
vii) The digit having only one line of symmetry is $\qquad$ .
viii) The number of digits having no line of symmetry is $\qquad$ .
ix) The line of symmetry of a line segment is the $\qquad$ bisector of the line segment.
x) A protractor has $\qquad$ line/lines of symmetry

