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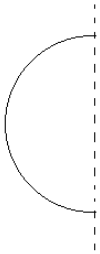
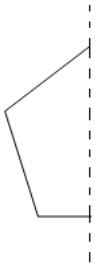
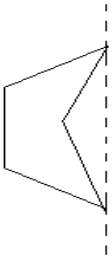
## WORK SHEET
## SUBJECT- SCIENCE
## Chapter 14– Symmetry

**CLASS- VII**

1. Define symmetrical figures. Draw two figures which are symmetrical.
2. What do you mean by a line of symmetry? Draw a figure with line(s) of symmetry on it.
3. In the following figures, the lines of symmetry is given as a dotted line. Complete each figure performing reflection in the dotted line.

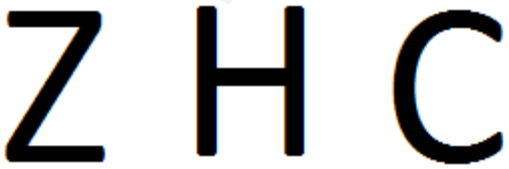
a)  b)  c) 

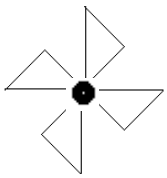
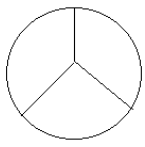
4. State the number of lines of symmetry for the following figures.
   a) An equilateral triangle
   b) A scalene triangle
   c) A quadrilateral
   d) A circle
   e) A regular hexagon

5. What letters of the English alphabet have reflection symmetry about:
   a) A vertical mirror
   b) A horizontal mirror
   c) Both horizontal and vertical mirrors

6. Give three examples of shapes with no line of symmetry.

7. Give the order of Rotational symmetry for the following:



a)  b)  c) d) e)

8. Name any two figures that have both line symmetry and rotational symmetry.
9. Draw, wherever possible, a rough sketch of:
   a) A quadrilateral with a rotational symmetry of order more than 1 but not a line symmetry.
   b) A triangle with only line symmetry and no rotational symmetry of order more than 1.
10. Fill in the blanks:

| Shape | Centre of Rotation | Order of Rotation | Angle of Rotation |
|---|---|---|---|
| Square | | | |
| Equilateral Triangle | | | |
| Circle | | | |
| Semi circle | | | |
| Rhombus | | | |