Introduction of Symmetry

1. Which figures are symmetric?





2. Write the number of line / lines of symmetry of following polygon:





3. Complete the following figures using the dotted line as axis of symmetry:





D.

4. Complete the following figures, using the given two lines of symmetry:



5. In each of the following, find the mirror image with respect to the given mirror line.



6. Each of the following figures shows paper cuttings with punched holes. Copy these figures on a plane sheet and mark the axis of symmetry so that if the paper is folded along it, then the holes on one side of its coincide with the holes on the other side.





- 7. Give three examples of shapes with no line of symmetry.
- 8. Write T for true and F for false statements.
 - A. An angle has two lines of symmetry.
 - B. Order of rotational symmetry of a semi circle is two.
 - C. A regular hexagon has six lines of symmetry.
 - D. A parallelogram has two lines of symmetry.
 - E. The number of lines of symmetry of a regular polygon is equal to the vertices of the polygon.
 - F. The order of rotational symmetry of a figure is 4 and the angle of rotation is 180° only.
 - G. Mirror reflection leads to symmetry always.