

## Lines and Angles

Write True or False in the boxes

- 1) If two lines intersect in the same plane then these lines must be parallel.
- 2) If a line intersects two lines then the line is parallel to the two lines.
- 3) When two straight lines intersect each other at a point then the vertically opposite angles formed at the point of intersection are unequal.
- 4) The sum of two adjacent angles on a same line is  $180^\circ$ .
- 5) The distance between two parallel lines remains the same.
- 6) If two parallel lines are cut by a transversal line then their corresponding angles must be equal.
- 7) The interior alternate angles are equal, if non parallel lines are cut by a transversal.
- 8) If line  $m$  is parallel to  $n$  and  $n$  is parallel to  $p$  then  $m$  is parallel to  $p$ .
- 9) The distance between two intersecting lines is zero.
- 10) When a transversal cuts two lines such that a pair of alternate exterior angles are unequal then the two lines must be non parallel to each other.