Brilliance Tuition Centre, Redbank Plains

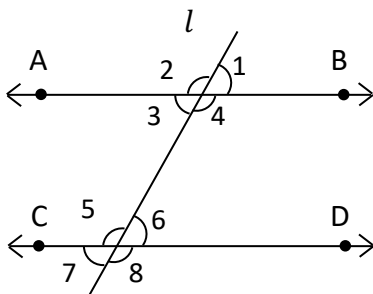1) Parallel lines: Do not intersect each other.
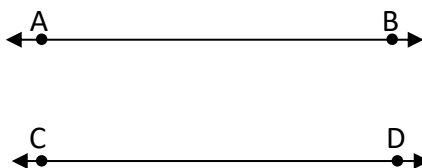
2) Transversals: Line that intersects two lines at distinct points is called as traversal.
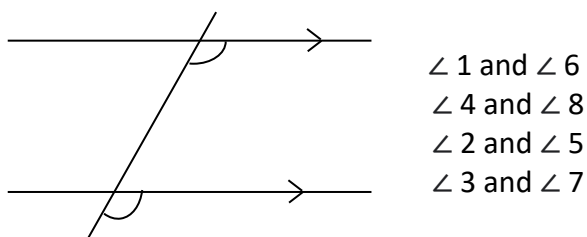
- Line l is called as transversal.
- Transversal line must cross two or more lines at separate points.
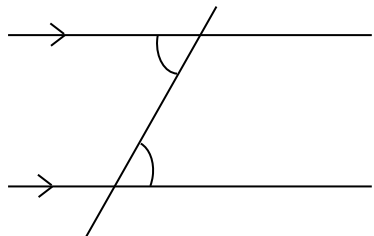
3) Parallel lines cut by transversal:

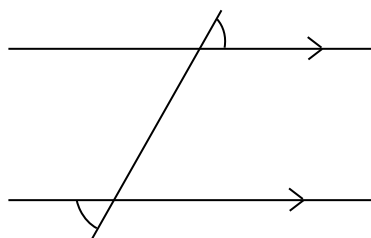4) Corresponding angles: Corresponding angles are equal

∠ 1 and ∠ 6
∠ 4 and ∠ 8
∠ 2 and ∠ 5
∠ 3 and ∠ 7

MATHS WORKSHEETS- GEOMETRY- NOTES- PARALLEL LINES & TRANSVERSAL

5) Alternate Interior angles: Alternate interior angles are equal

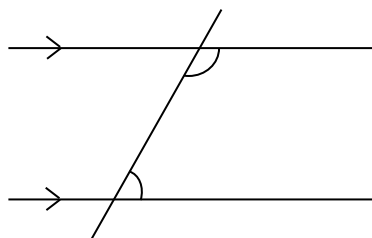$\angle\,4$ and $\angle\,5$

$\angle\,3$ and $\angle\,6$

6) Alternate exterior angles: Alternate exterior angles are equal

$\angle\,1$ and $\angle\,7$

$\angle\,2$ and $\angle\,8$

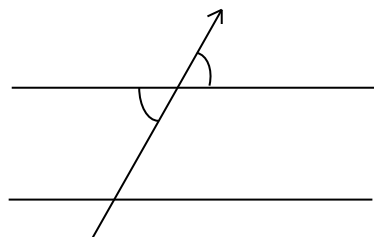7) Co-interior angles: (Consecutive interior angles or allied angles)

Co interior angles add up to 180^0

$\angle\,3$ and $\angle\,5$

$\angle\,4$ and $\angle\,6$

8) Vertically opposite angles: (Vertical angles)

Vertical angles are congruent

$\angle\,1$ and $\angle\,3$

$\angle\,2$ and $\angle\,4$

$\angle\,7$ and $\angle\,6$

$\angle\,8$ and $\angle\,5$