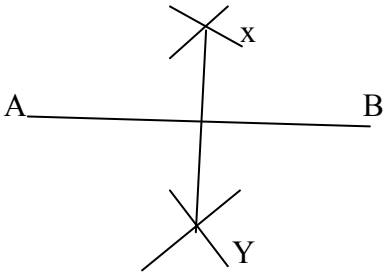
ZAMANI COLLEGE KADUNA
JS3 Mathematics
Holiday Assignment.

CONSTRUCTION

BISECTION OF A LINE:

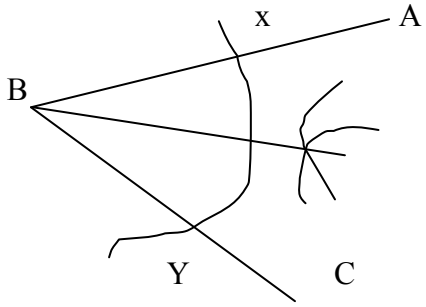
ACTIVITIES:

1 a. Draw a line, AB ($\overline{AB}$).
b. Open your compass to a radius, greater than ½ $\overline{AB}$; with A as centre draw arcs on both sides of $\overline{AB}$.



c. With B as centre, using, the same radius draw arcs on both sides of $\overline{AB}$ to cut the 1st pair of arcs at x and y.
d. Join x to y.
e. Line xy is the bisector of line AB.

2. **BISECTION OF AN ANGLE**
a. Draw angle ABC



b. Open your compass to a reasonable radius, with B as centre, draw an arc to cut $\overline{AB}$ at y.
c. Using X as cenre, radius greater than than ½ $\overline{xy}$, draw an arc.
d. using y as centre, with the same radius, draw the 2nd arc to cut the 1st at m.
e. Join m to B.

3. **TO CONSTRUCT A PERPENDICULAR FROM A POINT ON THE LINE**:

a. Draw line AB; mark the point, P on the line where the perpendicular is to be constructed.
b. With P as centre, using any reasonable radius, draw arcs to cut $\overline{AB}$ at X and Y
c. Bisect XY as in I.