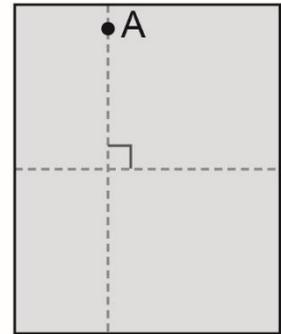


# Constructing Perpendicular Lines

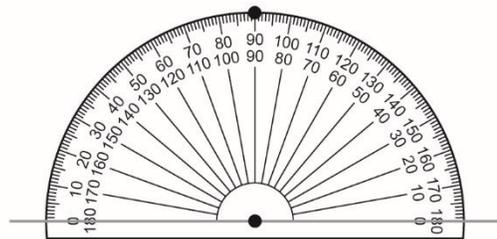
## Method 1: Paper Folding

1. Fold a piece of paper in half. Open the paper and draw a line segment along the fold.
2. Mark point A above the line.
3. Fold the paper at point A so that the line segment is folded onto itself.
4. Open the paper. Draw a line segment along the fold. This creates a line segment perpendicular to the starting line segment.



## Method 2: Protractor

1. Draw a line segment. Mark a point on the line segment.
2. Place the centre of the protractor on the point.
3. Mark a point at  $90^\circ$ .
4. Join the two marks to draw a line segment perpendicular to the starting line segment.



## Constructing Perpendicular Lines (cont'd)

### Method 3: Compass

1. Draw a line segment. Mark point A on the line segment.
2. Place the compass point on A. Draw an arc below the line segment that intersects it twice. Label the intersection points B and C.
3. Place the compass point on B. Open the compass so that the distance between the compass point and the pencil tip is longer than the radius AB. Draw an arc above the line segment. Then place the compass point on C and draw another arc so that these arcs intersect. Label that point D.
4. Draw a line through points A and D. Line segment AD is perpendicular to the starting line segment.

