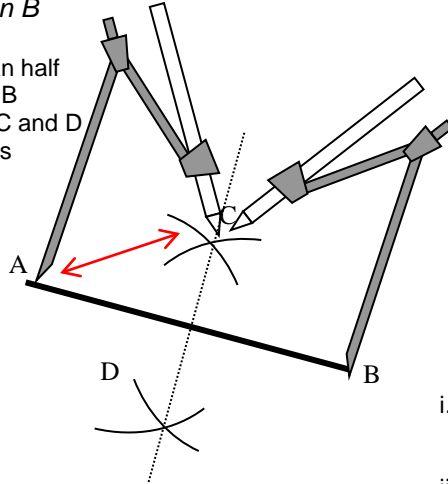


Construction

1. Perpendicular Bisector a Line (Bisecting a line / Equidistant)

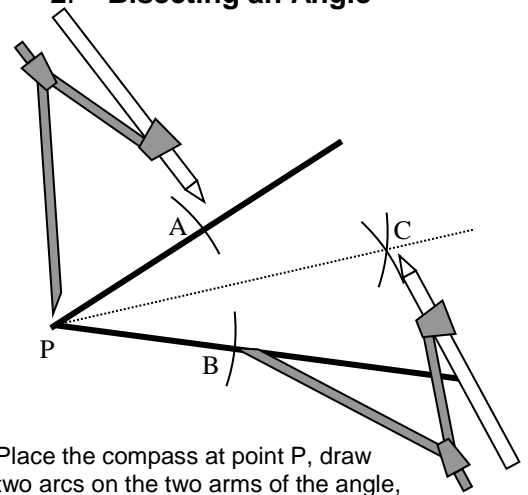
The area is closer to A than B

- i. Open the compass more than half the distance between A and B
- ii. Draw two arcs that cross at C and D
- iii. Draw a line from C to D that's perpendicular to A, B

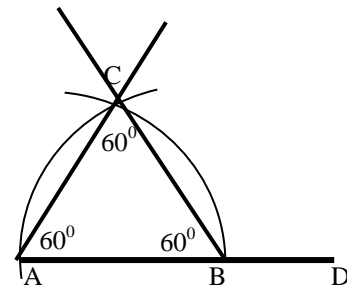
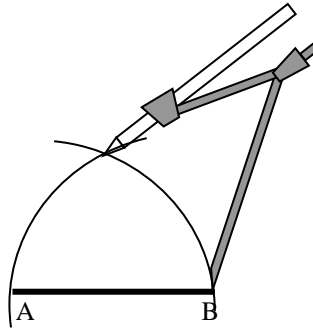
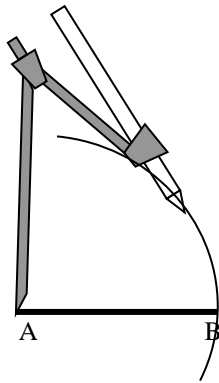


2. Bisecting an Angle

- i. Place the compass at point P, draw two arcs on the two arms of the angle, Label A and B
- ii. Place compass at point A draw an arc at C, repeat with B, Join point C and P



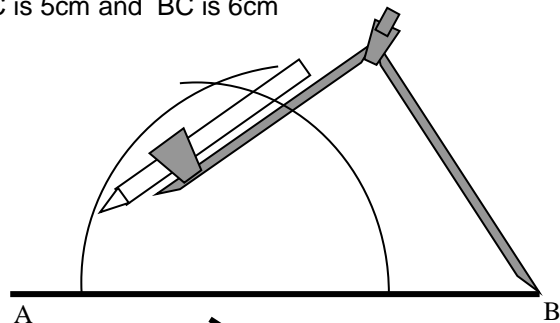
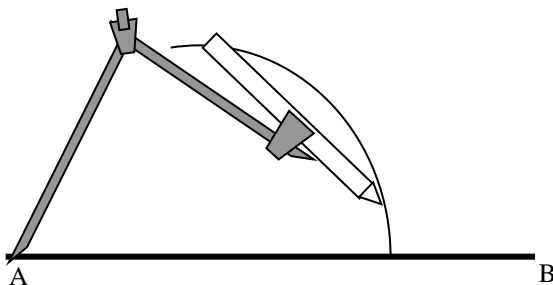
3. Constructing 60° (an Equilateral Triangle) 30°, 120°



- i. Draw an arc, keep the compass a fixed distance
- ii. Place the compass at point B (don't change the compass width) Draw an arc that crosses the first arc
- iii. Using a ruler draw EQUILATERAL triangle ABC
- iv. To make 30°, bisect angle CAB or ABC
To make 120° use the obtuse angle CBD

4. Constructing a triangle with given lengths

Construct triangle ABC. Where length AB is 7cm, AC is 5cm and BC is 6cm



- i. Draw a 7cm line AB with a ruler
- ii. Open compass to 5cm, place compass at A draw an arc
- iii. Open compass to 6cm, place compass at B draw an arc
- iv. Using a ruler complete triangle.
LEAVE ARC LINES VISABLE

