Constructing Perpendicular   
 Bisectors

**Measurement**

**Unit 1 Line Master 12a**

Hands holding a white paper

Description automatically generated**Method 1: Paper Folding**

1. Draw a line segment AB.

2. Fold the paper so that point A lies

on point B.

3. Open the paper and use a ruler to draw

a line segment along the fold.

Label the intersection point P.

4. Use a ruler to measure the two parts of AB to check   
 they are equal. Use a protractor to measure the angles   
 to check each is 90°.

**Method 2: Mira**

A close-up of hands drawing on a paper

Description automatically generated1. Draw a line segment AB.

2. Place the Mira so that the   
 reflection image of point A lies on

Point B.

3. Draw a line segment along the   
 edge of the Mira.

4. Verify the perpendicular bisector.

Constructing Perpendicular   
 Bisectors (cont’d)

**Measurement**

**Unit 1 Line Master 12b**

**Method 3: Compass**

1. Draw a line segment AB.

2. Set the compass so the distance between the compass and pencil points is greater than one-half the length of AB.

3. Place the compass point on A. Draw an arc. Do not change the distance between the compass point and pencil tip. Place the compass point on B. Draw a second arc that intersects the first.

3. Label the points of intersection C and D. Use a ruler to draw line segment CD.

4. Verify that CD is the perpendicular bisector of AB.

