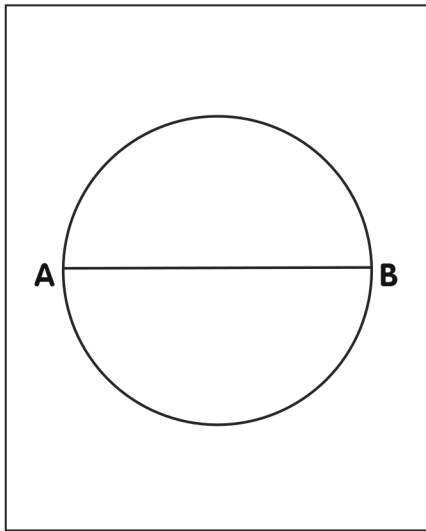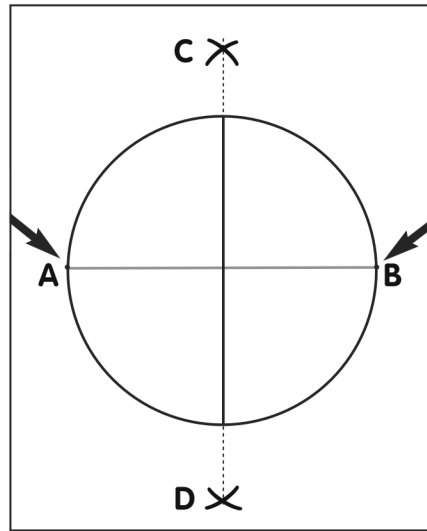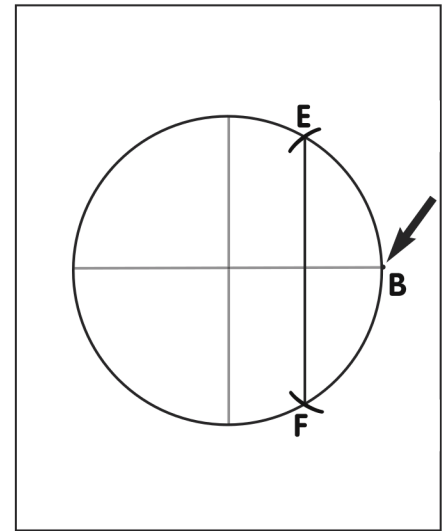# HOW TO DIVIDE A CIRCLE INTO FIVE EQUAL PARTS – Geometric Design
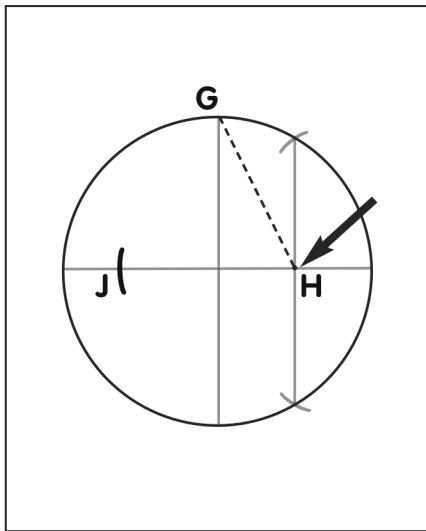

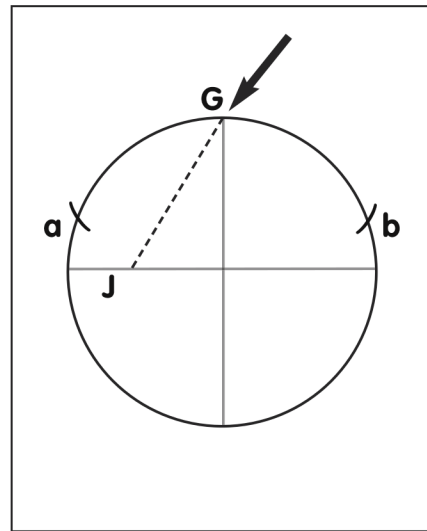1. Draw a circle with a horizontal diameter – **AB**.

2. Enlarge the radius of the compass. Place the point of the compass on point **A**. Draw a short arc above and below the circle. Keep the compass open at the same radius. Place the point of the compass on point **B**. Draw short arcs above and below the circle to intersect the other arcs. Draw a vertical line that connects the intersection points **C** and **D**.
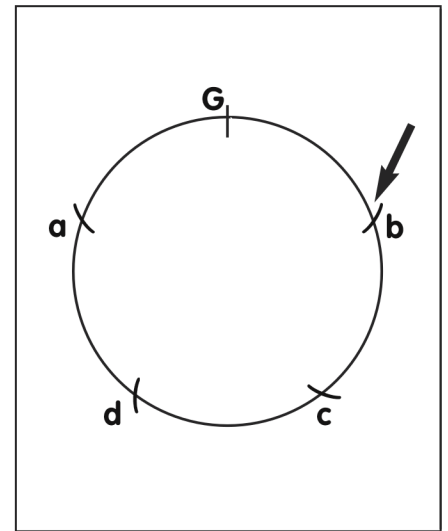

3. Set the compass to the radius of the original circle. Place the point of the compass on point **B**. Draw 2 short arcs that intersect the circumference of the circle – **E** and **F**. Draw a vertical line that connects the intersection points **E** and **F**.

4. Set the radius of the compass the length of **GH**. Place the point of the compass on **H**. Draw a short arc that crosses the horizontal diameter on the left – **J**.

5. Set the radius of the compass the length of **GJ**. Place the point of the compass on **G**. Draw 2 short arcs that intersect the circumference on the left and right – **a** and **b**.

6. Keep the radius of the compass the same. Move the compass point to **b**. Draw a new short arc that intersects the circumference at **c**. Move the compass point to **c**. Draw a new short arc that intersects the circumference at **d**. Erase the construction lines.