

**Step 1:** Open GeoGebra and hide the axes.

**Step 2:** Create a circle with center A and side point B.

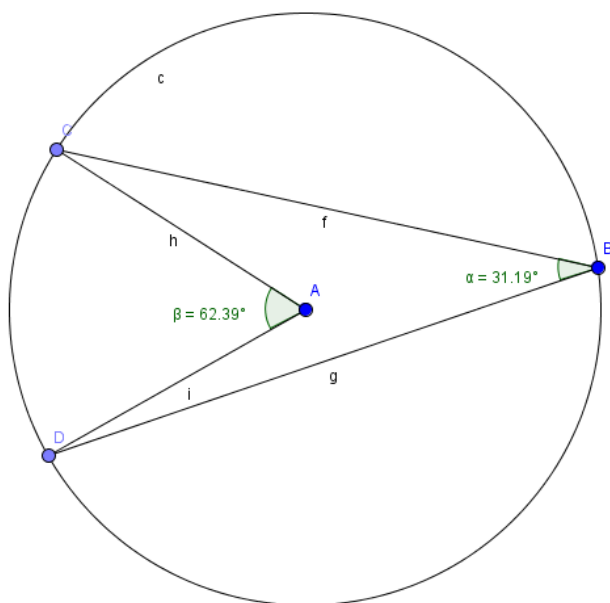
**Step 3:** Place points C and D on the opposite side of the circle from B.

**Step 4:** Create segments CB and DB.

**Step 5:** Draw angle CBD (an inscribed angle).

**Step 6:** Now create segments CA and DA.

**Step 7:** Draw angle CAD (a central angle). Your construction should look similar to this:



**Step 8:** Now move any of the points A, B, C, or D around (try to move to places where the angle measures are close to whole numbers – it will help you make a conclusion.)

What do you notice about the measure of the inscribed angle CBD, compared to the central angle CAD?

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Compare your results with the results of others near you. (REMEMBER: the measure of an arc is equal to the measure of the central angle that intercepts it.)

Your next conjecture could be: **The measure of an inscribed angle is \_\_\_\_\_ the measure of the intercepted arc.**