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 $D$ anywhere on the circle.
Step 4: Create line CD.
Step 5: Create a point E on the circle
Step 6: Using the parallel line button to create a line parallel to line CD through point E .
Step 7: Use the intersect button $\boxtimes$ to create point $F$ on the parallel line through point $E$ and the circle.

Step 8: Now create 2 circular arcs: one with center A from point C to E, the other with center A from point $D$ to $F$. Your construction should now look like this:


What do you notice about the measure of the arcs $e$ and $d$ ? $\qquad$

Move the points $\mathrm{E}, \mathrm{C}$, or D around. What do you notice about $e$ and $d$ now?
Compare your results with the results of others near you.

Your next conjecture could be: Parallel lines intercept $\qquad$ arcs on a circle.

