



# Measuring Angles in a Quadrilateral

## Student Activity

Name \_\_\_\_\_

Class \_\_\_\_\_

**Step 1:** Press . Move down to the *Cabri™ Jr.* application and press . Press , or any key, to begin using the application.

**Step 2:** Press  for the **F1** menu and select **New**. (If asked to **Save changes?** press   to choose “No.”)

**Step 3:** Press  for **F2**, move down to **Quad.**, and press  to select **Quad**. Move to the location of a vertex and press . Continue for the remaining three vertices. Press  to exit the quadrilateral drawing tool.

**Step 4:** Press  and move down to **Measure**. Move right and down to **Angle** and press . To measure an interior angle, you will select three points, where the second point is the vertex of the angle. The other points can be a vertex of the quadrilateral or a point on the side. Select a vertex or side adjacent to the angle to be measured, then the vertex of the angle to be measured, and then a vertex or adjacent side on the other side of the angle to be measured.

Press  to display the angle measurement rounded to the nearest tenth. Use the arrow keys to move the measurement to a convenient location. Press  to deactivate the hand. Measure all of the interior angles of your quadrilateral.

1. Sketch your quadrilateral below. Record the interior angle measurements.

2. Find the sum of the angles.

**Step 5:** Move the arrow until one of the vertices of the quadrilateral is flashing and press  to activate the hand. Use the arrow keys to move the vertex to form a new quadrilateral.

3. Record the measures of the four angles after moving a vertex. Find the sum of the angles.



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**Step 6:** Press  $\alpha$  to deactivate the hand and move the pointer to a different vertex. Press  $\alpha$  to activate the hand and move another vertex to a new location.

4. Record the measures of the four angles. Find the sum of the angles.

5. Make a conjecture: The sum of the interior angles of a quadrilateral is \_\_\_\_\_.