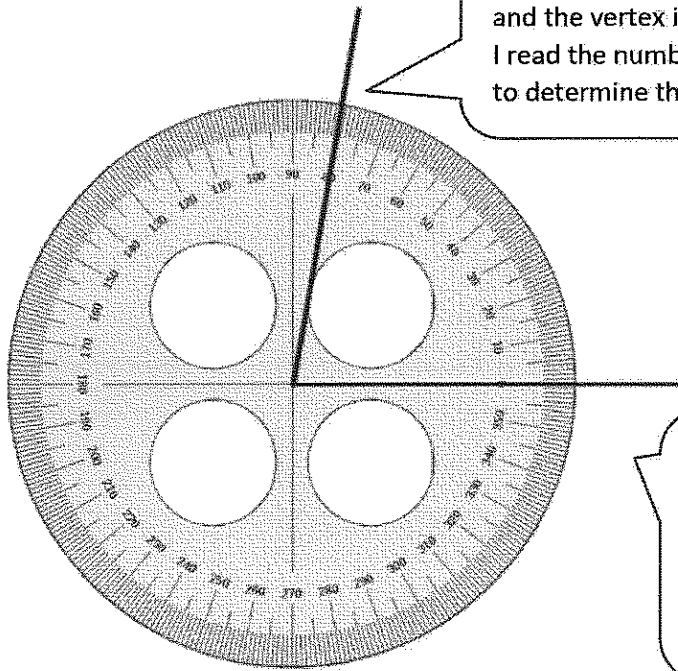


## G4-M4-Lesson 5

1. Identify the measures of the following angles.

*The angle measures  $80^\circ$ .*



To measure an angle, I place the protractor on the angle so that one of the rays aligns to zero and the vertex is at the center of the protractor. I read the number aligned with the second ray to determine the measure of the angle.

I use a protractor to measure angles. A protractor has tick marks like a ruler, but instead of measuring inches or centimeters, it measures degrees around a point.

2. If you didn't have a protractor, how could you construct one? Use words, pictures, or numbers to explain in the space below.

*Sample Student Response:*

*If I didn't have a protractor, I could cut out a paper circle. Using a right angle template, I could partition the circle in fourths and then mark  $0^\circ$ ,  $90^\circ$ ,  $180^\circ$ ,  $270^\circ$ , and  $360^\circ$ . Although my protractor would not be able to give an exact measurement of any angle, I could estimate the measure using these benchmarks.*

I reflect on my experiences and discussions in class. We partitioned paper circles in various ways, labeling degrees accurately.