

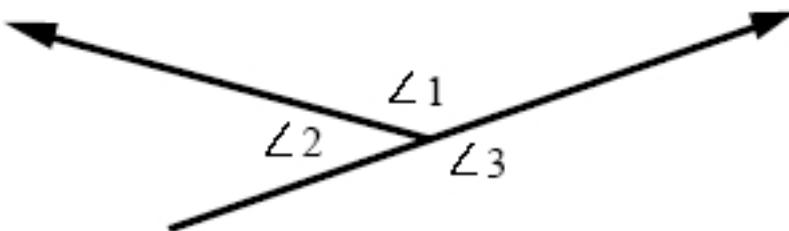
### Degrees and Protractor

Degrees are the unit of measure used for angles, just as feet are used to measure distance. The symbol for degrees is " $^{\circ}$ ". There are  $360^{\circ}$  in a full circle, and  $90^{\circ}$  in a right angle. A protractor is used for measuring angles. As shown below, a protractor is a half or full circle measuring device, marked in degrees along the outer edge, with a straight line running from  $0^{\circ}$  to  $180^{\circ}$ . There is a small hole in the center of the protractor. To use a protractor:

1. Place the hole of the protractor over the point of the angle where the lines meet.
2. Make sure one side of the angle is on the zero line.
3. Read the degrees off the protractor where the line of the other side is or mark a point along the edge at the appropriate angle measurement.



Example 1 - Part A. Measure angles 1, 2, and 3 using a protractor to follow the steps above.



You should find that the angles measure as follows:

$$\angle 1 = 146^\circ, \angle 2 = 34^\circ, \angle 3 = 180^\circ$$

Pair 3:  $\angle 1 = 146^\circ$ ,  $\angle 2 = 34^\circ$ ,  $\angle 3 = 180^\circ$  (Sum of angles =  $146^\circ + 34^\circ + 180^\circ = 360^\circ$ )