## Measuring Angles

Remember how one side of the angle traces out a circular $\operatorname{arc}^{\circ}$. We use that circle to measure how big the angle is. We look at how much the angle has "opened" as compared to the full circle.

Angles are measured in degrees. The symbol for degrees is a small raised circle: ${ }^{\circ}$.

- The full circle is $360^{\circ}$ (360 degrees).
- A half circle (a straight angle) is $180^{\circ}$.
- A quarter of a circle (a right angle) is $90^{\circ}$.

Show the angles below using two pencils. Try to "see" the circle that is traced in the air.


This is a 1-degree angle - it is $1 / 360$ part of the full circle!

## How to use a protractor to measure angles

1. Place the midpoint of the protractor on the vertex of the angle.
2. Line up one side of the angle with the zero line of the protractor (where you see the number 0 ). 3. Read the degrees where the other side crosses the number scale.


In the examples above we lined up one of the sides of the angle with the zero of the lower set of numbers, so we need to read the lower set of numbers.

1. Measure the angles.

