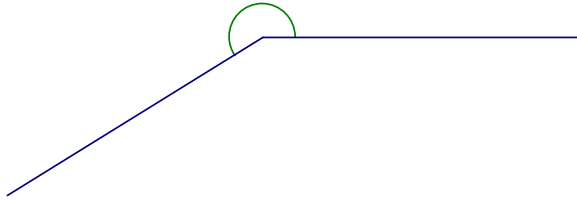


Measure This!

Think about how you can measure the angle shown below using a regular protractor.

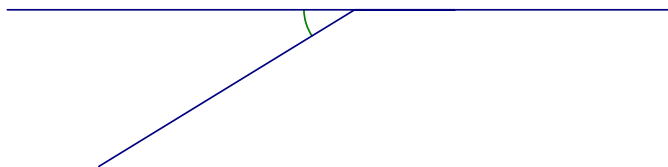


Discussion, Suggestions, Possible Solutions

Since a regular protractor can measure only up to 180° , students will not be able to directly measure a reflexive angle like the one given. There are two basic approaches.

First approach will use the fact that full turn will be 360° . Thus, instead of measuring the given angle, we can measure its complement, then subtract that amount from 360° .

Another approach is to extend one side of an angle, then measure the angle beyond the straight angle, as shown below.



A variation of the second approach is to partition the given angle into two angles, each of which is less than 180° .

With both of these approaches, students are developing an important understanding that angle measures may be added or subtracted....

Extension:

You may want to introduce students to circular protractors as a tool to measure angles.