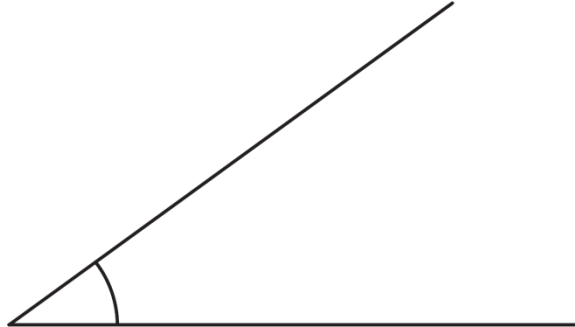


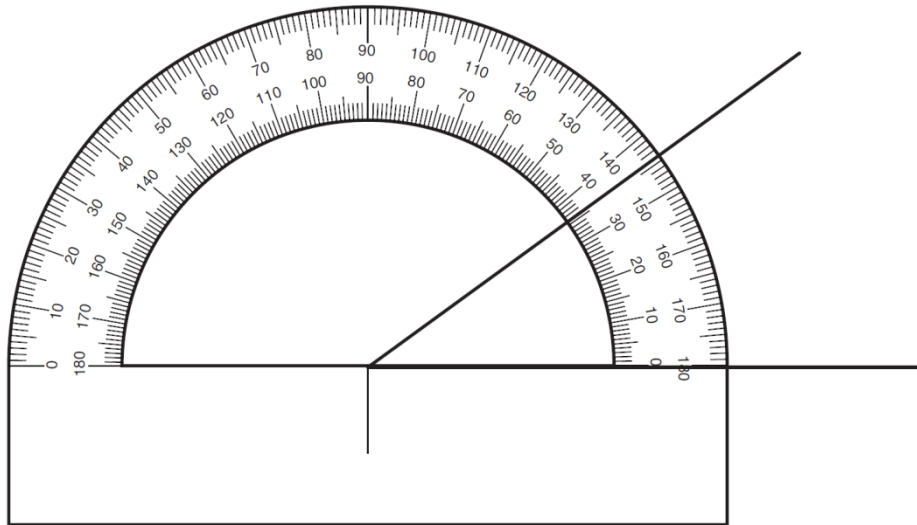
Bisecting Angles with a Protractor and Ruler

1. Bisect the angles shown.

a.



Step 1: Measure the given angle with a protractor.

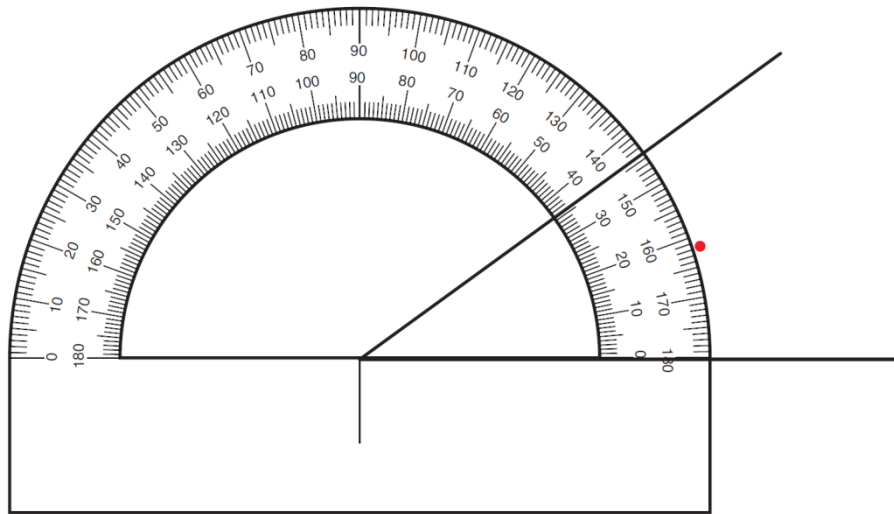


The angle measure is 36° .

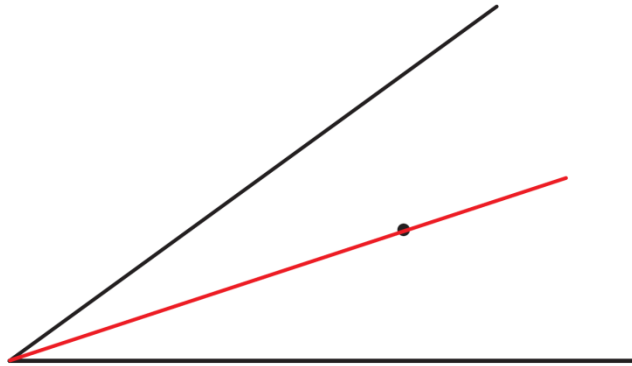
Step 2: Divide the measured angle by 2 to get the bisected angle measure.

$$36^\circ \div 2 = 18^\circ$$

Step 3: Lay the protractor on one of the angle arms so that the origin lines up with the vertex of the angle. Measure the number of degrees for the bisected angle, and mark the bisected angle arm point.

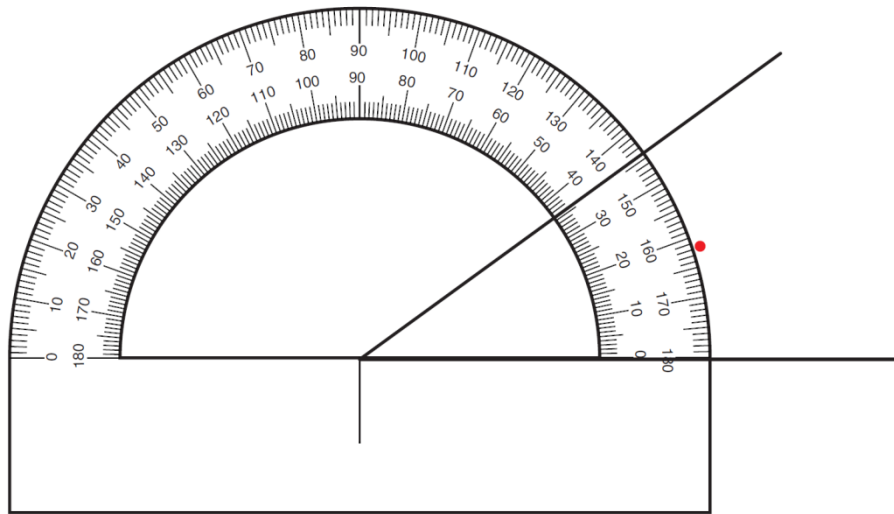


Step 4: Connect the marked bisected angle arm point to the vertex with a ruler.

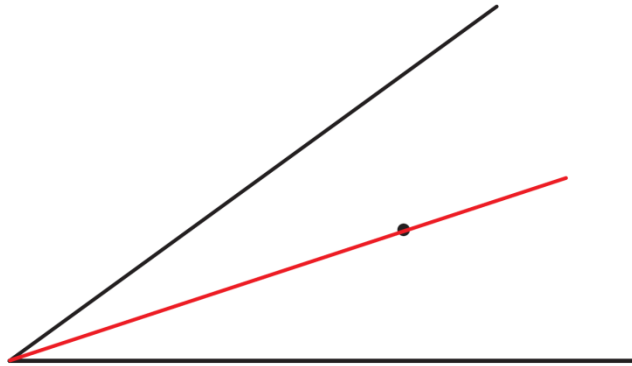


The angle is now bisected into angles of 18° .

Step 5: Check the bisected angle by measuring with a protractor.

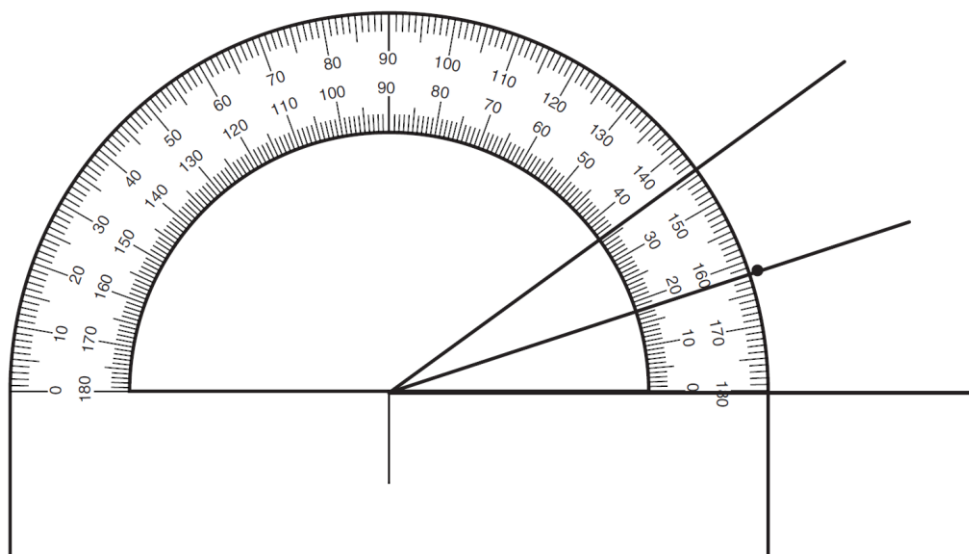


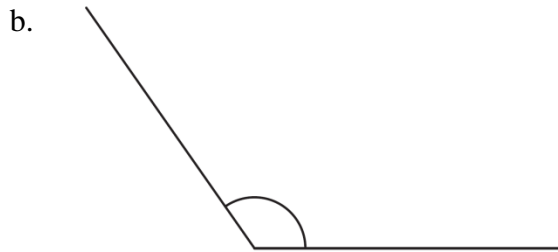
Step 4: Connect the marked bisected angle arm point to the vertex with a ruler.



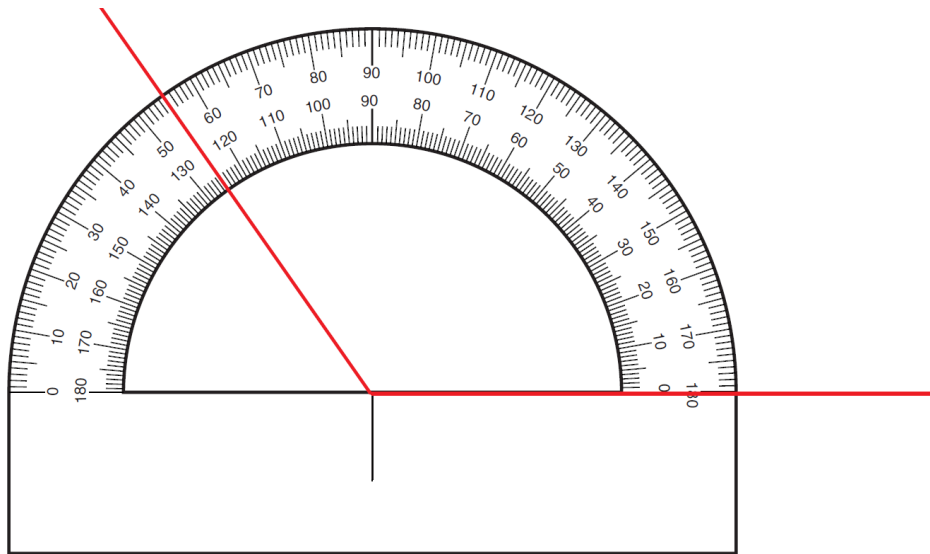
The angle is now bisected into angles of 18° .

Step 5: Check the bisected angle by measuring with a protractor.





Step 1: Measure the given angle with a protractor.

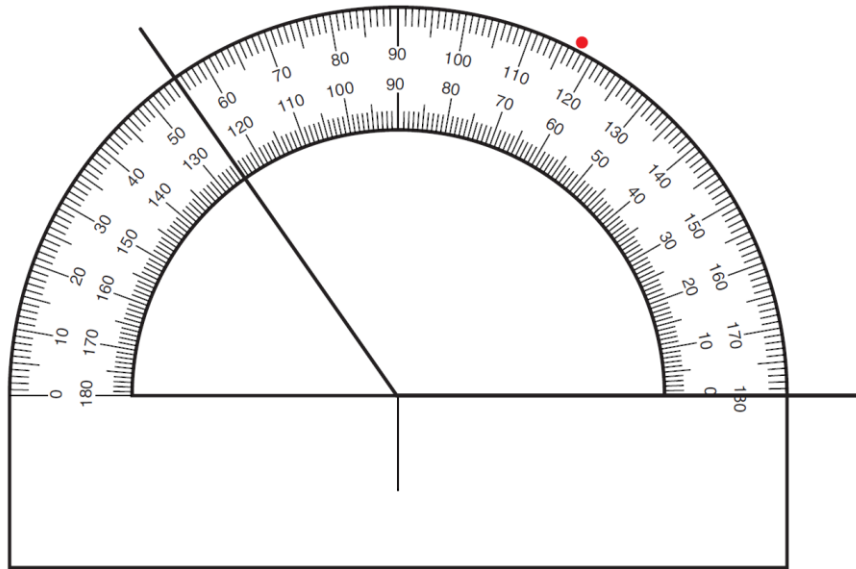


The angle measure is 125° .

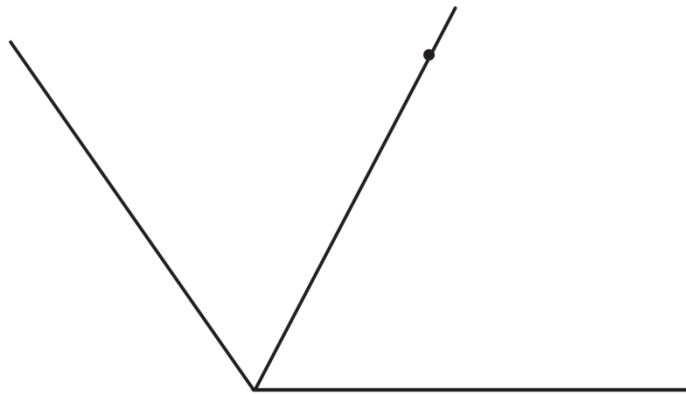
Step 2: Divide the measured angle by 2 to get the bisected angle measure.

$$125^\circ \div 2 = 62.5^\circ$$

Step 3: Lay the protractor on one of the angle arms so that the origin lines up with the vertex of the angle. Measure the number of degrees for the bisected angle, and mark the bisected angle arm point.



Step 4: Connect the marked bisected angle arm point to the vertex with a ruler.



The angle is now bisected into angles of 62.5° .