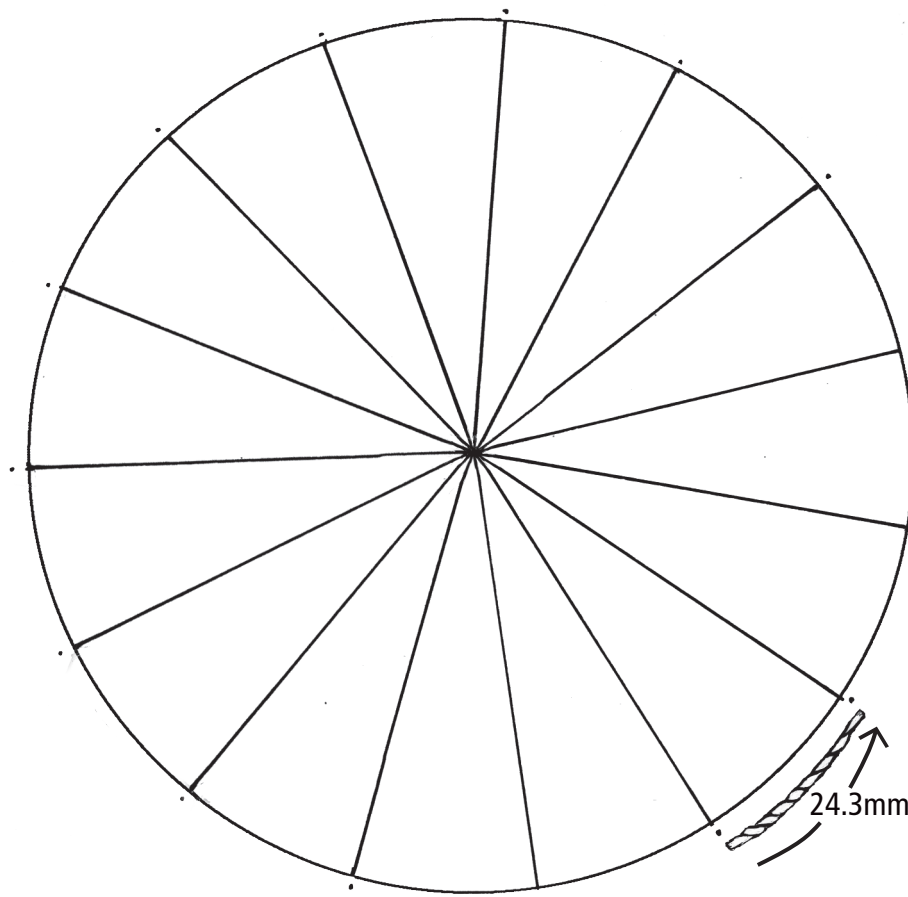## Your finished quips protractor should look like this.

A string laid around the perimeter of this circle would be 364mm long
(note, this circle is a different size to the one in your Explorer manual)

So the arc length cut off by one quip sized angle in this circle would be $\frac{1}{15}$ x 364 = 24.3mm.

The openness of the angles in this quips protractor are:

Arc length cut off by a quip sized angle	24.3mm	Circumference of protractor	364 mm
Ratio of arc length to circumference (openness) of a quip sized angle: ratio	$\frac{24.3}{364}$	= percentage	6.7%

Use this solution sheet as a guide when completing the quips protractor in your
Mathomat Explorer manual