

### Table for Diameter, Circumference, and Ratio

Diameter $d$	Circumference $c$	Ratio $c/d$

Here is a table with values obtained by a group of participants. Compare it to your own table

Diameter $d$	Circumference $c$	Ratio $c/d$
16.5	50	3.0
9	28	3.1
7.5	24.5	3.2
7	21	3.0
5.5	18	3.2
10	31.4	3.1
4.5	13.5	3.0
9.4	28.7	3.0

Notice that in each case the ratio  $c/d$  is a little over 3. More precisely, it is about 3.1. This ratio does not depend on the size of the circle. The value of the ratio  $c/d$  is called  $\pi$ . Because of measurement error, we are not able to compute exactly the value of  $\pi$  by measuring. The exact value of  $\pi$  can be computed using other methods. For most practical purposes, approximating  $\pi$  as 3.14 is quite appropriate.