## EXPORING CIRCLES

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On the back of this page keep a vocabulary list of the words you will need to know when doing this experiment. Your teacher will tell you them, but you may know some of them already.

First, after choosing a parther, find several circular shapes to list and measure each's diameter and circumference in metric millimeters ( mm ). Record your the shapes and measurements below.

CIRCULAR SHAPE measure diameter (d) measure circumference ( $C$ ) how many times longer Hopefully you can do the last column calculation by hand and also using a calculator. Show your work is the $d$ than $C$ ? ( $C / d$ ) on the back of this data sheet. Careful what you enter into the calculator.


Look at the last column to the right of your data above. Is there a pattern of how many times the diameter (d) "fits into" the distance around the circle (C)? $\qquad$ the circumference ( $C$ ) is about $\qquad$ times as long as the diameter (d). Will this work with every circle? $\qquad$ Why do you think the number isnt exact here?


