Rich and Natalie’s Pi Day Activity

Discovering Pi

* Pick three objects and measure the circumference and diameter of each object. Record your findings below.

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| --- | --- | --- |
| **Object** | **Circumference** | **Diameter** |
|  |  |  |
|  |  |  |
|  |  |  |

* Does there appear to be a pattern?
  + Yes, all of the circumferences are around three times the diameter
* Here is a list of data on circles that were more accurately measured. Using this data, can you refine your conjecture?

|  |  |
| --- | --- |
| **Circumference** | **Diameter** |
| 25.1327 | 8 |
| 9424.78 | 3000 |
| 23.5619 | 7.5 |
| 307.876 | 98 |
| ??? | 1 |

* How would you find the missing circumference using your new conjecture?
* What is a possible equation for the circumference of a circle, give its diameter?