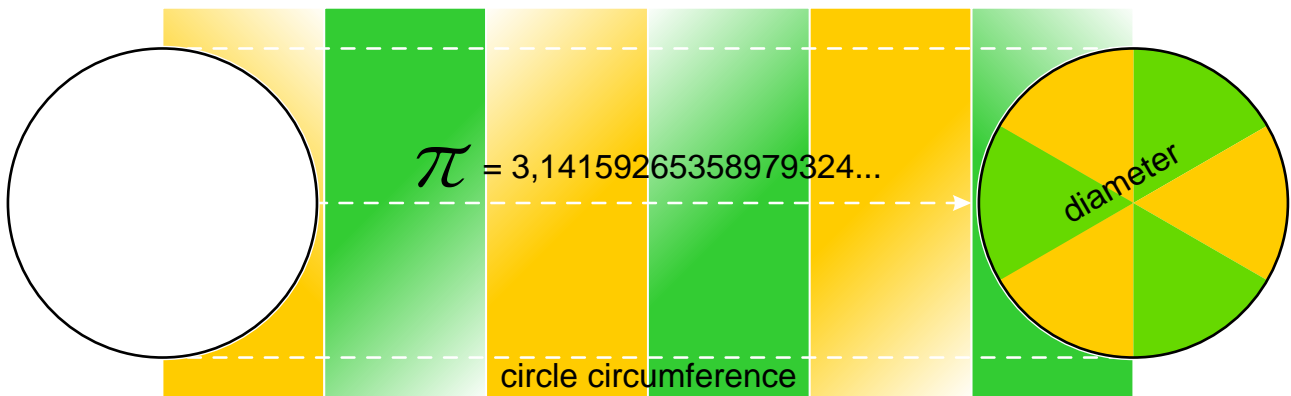


Roll a circle one full turn along a line. The line is equal to the circumference of the circle. Then imagine rolling more circles of various sizes along the line always equal to the circumference of the circle.

What can you tell about the relationship between the circumference and the diameter of a given circle? Is it the same for all circles?

Circle Circumference and the Number Pi ^[solution]



The circumference of every circle is approximately $3 + \frac{1}{7}$ times the diameter. That number is famously known as π and is the best known of the irrational numbers – numbers that continue an infinite number of decimal places without repeating.