

MathFLIX CHALLENGE

All about π

History of Pi Use the information given to complete the table.

Culture/Person	Year	Difference from 2012 *	Estimated Value of π	Difference from $\pi = 3.14159$
Babylonian	2000 BCE	$2012 - (-2000) = 4012$	$3 + 1/8 = 3.125$	
Egyptian	2000 BCE		3.16045	
China	1200 BCE		3	
Bible	500 BCE		3	
Archimedes	250 BCE		3.1418	
Hon Han Shu	130 CE	1882 years	$\text{Sqrt}(10) \cong 3.1622$	
Ptolemy	150 CE		3.14166	

* BCE is an abbreviation for Before Current Era or Before Common Era and refers to years occurring **before** the Year 1. CE is an abbreviation for Current Era or Common Era and refers to years occurring **after** the Year 1.

Finding Pi Use the measurements given below to complete the table..then measure your own items and see how close to π your measurements are!

#	Item	Diameter	Circumference	$\frac{\text{Circumference}}{\text{Diameter}}$	Difference from Pi
1	small can	10 cm	31.5 cm		
2	large can	15.5 cm	48.5 cm		
3	salt shaker	3.4 cm	12.2 cm		
4	paper cup	8.4 cm	27.7 cm		
5					
6					
7					

Finding Circumference Calculate the circumference of each circle in centimeters. What stays the same in each calculation? Remember, $C = \pi d$

Diameter = _____

Diameter = _____

Diameter = _____

Circumference = _____

Circumference = _____

Circumference = _____

