

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 3.14159
Babylonian	2000 BCE	4012 years	$3 + 1/8 = 3.125$	
Egyptian	2000 BCE		3.16045	
China	1200 BCE		3	
Bible	500 BCE		3	
Archimedes	250 BCE		3.148	
Hon Han Shu	130 CE	1882 years	$\text{Sqrt}(10) = 3.162$	
Ptolemy	150 CE		3.1416	

* 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 information given to complete the table.

#	Item	Diameter	Circumference	<u>Circumference</u> Pi	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					

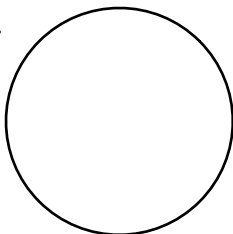
Finding Circumference Calculate the circumference of each circle in centimeters. What stays the same in each calculation? Remember, $C = \pi d$

Diameter =

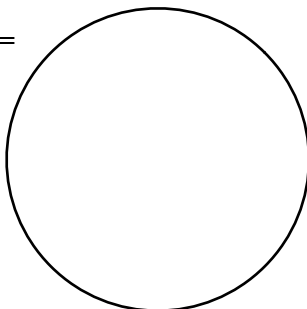
Diameter =

Diameter =

Circumference =



Circumference =



Circumference =

