



# All Saints Staff Numeracy Challenge Special Edition - HAPPY PI DAY!!!!!!



Today is Pi Day – a day in honour of the mathematical constant pi ( $\pi$ ).  
The date used comes from the American way of writing dates (month before day) so 3/14 are the first three digits of  $\pi$ .

Pi is the ratio of a circles circumference to its diameter. It is a constant and therefore never changes. It is also classed as an irrational number in mathematics. This means it is impossible to write it as a fraction and it is impossible to write down the exact value of it as a normal number – the decimal part continues forever without repetition. It has currently been calculated to an accuracy of 22,459,157,718,361 digits!

### Ten Facts About Pi

- FACT 1** The symbol for pi ( $\pi$ ) has only been used for approximately 250 years.
- FACT 2** You can **never** find the true circumference or area of a circle because we can never find the true value of  $\pi$
- FACT 3** Albert Einstein was born on Pi-Day (in 1879)
- FACT 4** The first million decimal places of pi contains 99,959 zeros, 99458 1s, 100,026 2s, 100,229 3s, 100,230 4s, 100,359 5s, 99,548 6s, 99,985 8s and 100,106 9s.
- FACT 5** Pi is mentioned in the Bible (it is approximated to 3).
- FACT 6** The official celebration of Pi starts at 1.59pm so that with the date, 3/14 you get the first 6 digits of Pi: 3.14159
- FACT 7** Chao Lu holds the world record for remembering the value of pi up to 67,890 digits
- FACT 8** A Givenchy men's after-shave named Pi is marketed as highlighting the sexual appeal of intelligent and visionary men.
- FACT 9** Pi is the 16<sup>th</sup> letter of the Greek alphabet – its English equivalent, P is also the 16<sup>th</sup> letter of the English alphabet.
- FACT 10** The first 144 digits of Pi add up to 666 – the Number of the Beast in the book of Revelation.

### PIDOKU CHALLENGE

This is Sudoku with a twist of pi.  
The first 12 digits of pi are  
3 1 4 1 5 9 2 6 5 3 5 8.  
Each block on the right has 12 squares – you need to fit all of the first 12 digits of pi in each section. Plus each of the digits needs to appear in each row AND each column. (So you can have 2 1s, 2 3s and 3 5s but no 7s!).  
If you solve it, leave it in my pigeon hole with a name for a chance to win an Easter egg.

3			1	5	4			1		9	5
	1			3					1	3	6
		4			3		8			2	
5			1			9	2	5			1
	9			5			5				
5	8	1			9			3		6	
	5		8			2			5	5	3
				5			6			1	
2			5	1	5			5			9
	6			4		1			3		
1	5	1					5			5	
5	5		4			3	1	6			8



What do you get if you take the sun and divide its circumference by its diameter?