

# Pi contest!

No, not that kind of pie,  
this kind of Pi:

$\pi$

Pi is the ratio of any circle's  
circumference to its diameter.



Pi is an irrational number. That means, in standard decimal form, it is infinite with no pattern to the digits after the decimal. As an irrational number, it cannot be expressed as a fraction (ratio of two integers). It may be approximated as 3.14 or  $\frac{22}{7}$ , but it can only be expressed exactly with the symbol  $\pi$ .

Contest: Memorize 25 digits of Pi (digits after the decimal), or as many digits as possible (your choice). The first 1,000 digits of Pi are on the back of this entry form as a reference.

## "Pi"zes

≥ 25 digits of Pi

Mini-pie (flavor may vary)



Grade level champion  
6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup> graders with  
most digits of Pi (Pi Hat)



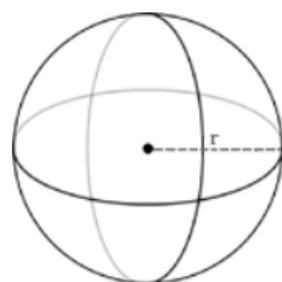
M.S. Grand Champion  
Grade level champion with most  
digits of Pi (t-shirt, design may vary)

To compete in the Pi contest, please follow the directions below:

- 1) Memorize Pi. Not all of it (impossible), but as many digits as you choose.
- 2) Choose a time to recite Pi to your Math teacher. Here are times that may work well: during break, during play, during lunch, before or after school. You must choose a time between now and Friday, March 8 to recite Pi. Winners will be determined on the weekend of March 9 and winners will be awarded their prizes on Monday, March 11. Note: If you anticipate reciting 100 or more digits of Pi, please make an appointment to do this with Mr. Colby.
- 3) **If you wait too long, you may only get one shot at reciting Pi**, so attempt your pi recitation as soon as possible. If you try early, you may have time to arrange to try again before March 8. It is OK to try multiple times, but this is subject to teacher availability. Speak clearly and slowly enough to be understood. Your result will be kept secret until Pi day. You win a mini-pie by reciting ≥ 25 digits.
- 4) Grade level champions of Pi will be the student in each grade level who recites the most digits of Pi. Grade level champions will each receive a Pi hat.
- 5) The MS grand champion of Pi will be the grade level champion who recited the most digits of Pi. The MS grand champion of Pi will also win a t-shirt as well as the right to throw a pie at Mr. Werab.

# The First Thousand Digits of Pi

The number known as pi ( $\pi$ ) has fascinated people for millenia. The digits to the right of its decimal point can keep going forever, and there is absolutely no pattern to these digits.



A team of researchers at Tokyo University in Japan calculated the digits of pi to 1.24 trillion places. Chances are, you'll never need to know even the first ten digits, but just for fun, here are the first thousand:

$\pi = 3.$

|            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------|
| 1415926535 | 8979323846 | 2643383279 | 5028841971 | 6939937510 | 50   |
| 5820974944 | 5923078164 | 0628620899 | 8628034825 | 3421170679 | 100  |
| 8214808651 | 3282306647 | 0938446095 | 5058223172 | 5359408128 | 150  |
| 4811174502 | 8410270193 | 8521105559 | 6446229489 | 5493038196 | 200  |
| 4428810975 | 6659334461 | 2847564823 | 3786783165 | 2712019091 | 250  |
| 4564856692 | 3460348610 | 4543266482 | 1339360726 | 0249141273 | 300  |
| 7245870066 | 0631558817 | 4881520920 | 9628292540 | 9171536436 | 350  |
| 7892590360 | 0113305305 | 4882046652 | 1384146951 | 9415116094 | 400  |
| 3305727036 | 5759591953 | 0921861173 | 8193261179 | 3105118548 | 450  |
| 0744623799 | 6274956735 | 1885752724 | 8912279381 | 8301194912 | 500  |
| 9833673362 | 4406566430 | 8602139494 | 6395224737 | 1907021798 | 550  |
| 6094370277 | 0539217176 | 2931767523 | 8467481846 | 7669405132 | 600  |
| 0005681271 | 4526356082 | 7785771342 | 7577896091 | 7363717872 | 650  |
| 1468440901 | 2249534301 | 4654958537 | 1050792279 | 6892589235 | 700  |
| 4201995611 | 2129021960 | 8640344181 | 5981362977 | 4771309960 | 750  |
| 5187072113 | 4999999837 | 2978049951 | 0597317328 | 1609631859 | 800  |
| 5024459455 | 3469083026 | 4252230825 | 3344685035 | 2619311881 | 850  |
| 7101000313 | 7838752886 | 5875332083 | 8142061717 | 7669147303 | 900  |
| 5982534904 | 2875546873 | 1159562863 | 8823537875 | 9375195778 | 950  |
| 1857780532 | 1712268066 | 1300192787 | 6611195909 | 2164201989 | 1000 |