π-Day Fun Page

What's the official snake of π-Day?

A π-thon!

Name: _____

Words to search for:

area	decimal	point
circle	diameter	radius
circumference	formula	ratio
cone	four	sphere
cylinder	infinite	squared
	irrational	three
	one	volume

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D I V O L U M E Q G T B R Y Y
C I R C U M F E R E N C E R Y
Y S L R E T E M A I D Z N D J
L N P N A S A I E E R H T G T
I D O H U T N R F B D R N V M
N C E I E F I O E E L C R I C
D T D C I R R O R A R M B P B
E A N N I M E A N A F O U R Z
R V I I U M U E T A R N Q W W
L T Q L O Q A I N V L Y N N D
E N A Y S P O L K O W G T B M
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Facts About π

- π stands for the ratio between the circumference and diameter of a circle.
- π is a Greek letter spelled "pi" and pronounced like "pie".
- There is no way to write the accurate value of π as a fraction.
- If you try writing π as a decimal, the digits go on forever.
- π shows up in surprising areas of math that don't have to do with circles in an obvious way.
- The area of a circle is: πr^2

- The volume of a sphere is: $\frac{4}{3}\pi r^3$

- The volume of a cone is: $\frac{1}{3}\pi r^2 h$

- One of the most astonishing facts in all of mathematics is Euler's Formula: $e^{i\pi} + 1 = 0$

What do you get when you divide a pumpkin by its diameter?

Pumpkin π!

π Crossword

Across
4. A line segment that goes from one edge of a circle to the other edge, passing through the center
6. A line segment from the center of a circle to any edge
9. The center of a circle is sometimes called its _____.
11. The measurement around the outside of a circle

Down
1. First mathematician to give a method of calculating π to any desired degree of accuracy
2. A line segment within a circle that touches 2 points on the circle
3. The shape of a slice of pie (a circle wedge)
5. The digits of π go on forever; they are _____
7. Circumference divided by diameter
8. The amount of space inside of a solid figure
10. A circle's _____ = πr²

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(The answers to these puzzles are there, too.)
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