



Math Mole

June 24, 2005

I Scream, You Scream, We All Scream

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- Today's Editor: Mark
- Next: Nehal
- Later: Lily, Tyler, Neena, Michael

Quote: Alcohol and Calculus don't mix. Never drink and derive.

—Officer Bob

Puzzle1: How many zeroes are on the end of 100,000!?

Puzzle2: A boy, a girl and a dog go for a 10 mile walk. The boy and girl can walk at 2 mph and the dog can trot at 4 mph. They also have a bicycle which only one of them (including the dog!) can use at a time. When riding, the boy and girl can travel at 12 mph while the dog can pedal at 16 mph. What is the shortest time in which all three can complete the trip (and how do they do it)?

Puzzle3: Suppose we have 100 lockers which start all closed. You start at one end and open every locker one by one. You then return to that end and then starting with the second locker close every other locker. You then return to that end again and starting from the third locker change the state (if it is open close it, if it is closed open it) of every third locker. Then every fourth, every fifth and so on. You do this for 100 passes. How many lockers will be left open when you are done?

Mathematician of the Day



Baron S. Contra of Diction - 271-314BC

Little is known of Baron S. It is known that he was born in Atlantis, and proved the Theorem of No Axioms. It is said he managed to get the derivative of God, but it is speculated that he was under the influence of alcohol at the time. He also is credited with writing the book "Disproving Mathematical Theory", which went out of print shortly after his death in the streets of Rome for proving that two wrongs make the square root of a right. His book contained many proofs that the mathematical community was more than happy to get rid of, including the pre-stated 'Two Wrongs Make the Square Root of a Right' as well as 'Why Pi is Rational', 'The Existence of Almost Negative Numbers'(also referred to as Nega-posi Numbers Theorem), and the ever popular 'Addition Doesn't Add up'. The only known copy of the book in the present day world is scheduled to be burned somewhere in Northern Ireland in the year 2005.

Info From: Nowhere in particular and has no real bearing towards reality. Feel free to disregard.

Notes

Outline

Ice Cream

Graph Theory

-Platonic Solids

Homework: Read Chapter 5, 6, ... from Graph Theory