

# Math Mole

June 12, 2009

TGIF

Volume 1, No. 5

## This issue

- Mathematician of the Day
- Puzzle
- Today's Editor: Dr. C
- Monday: Dakota

**Children:** Teanchi and Beanchi are a married couple (don't ask me who's he and who's she)! They have two kids; one of them is a girl, what is the probability that the other kid is also a girl. Assume safely that the probability of each gender is  $1/2$ .

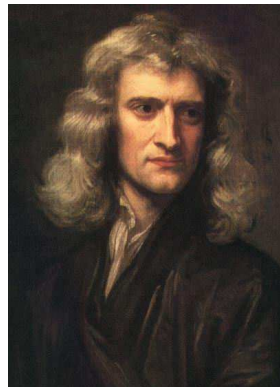
**Diaphantan Equations:** Determine all possible triples  $(p, q, r)$  of integers that satisfy the following system of simultaneous equations:

$$p^2(q + r) = 5$$

$$q^2(r + p) = 8$$

$$r^2(p + q) = 9.$$

## Mathematician of the Day



Sir Isaac Newton: December 25, 1642 - March 20, 1727 (England)

- Isaac Newton was the greatest English mathematician of his generation. He laid the foundation for differential and integral calculus. His work on optics and gravitation make him one of the greatest scientists the world has known.
- Formulated the three laws of motion, which describe classical mechanics
- Proposed the theory of universal gravitation, which explains that all bodies are affected by the force called gravity
- Newton was reluctant to share his research with other scientists for fear they would take credit for his discoveries.
- Newton instigated a Royal Society investigation to prove that he invented calculus before German mathematician Gottfried Wilhelm Leibniz, who had published the method first.
- In 1703 he was elected president of the Royal Society and was re-elected each year until his death. He was knighted in 1705 by Queen Anne, the first scientist to be so honored for his work.

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Picture From: <http://en.wikipedia.org/wiki/Image:GodfreyKneller-IsaacNewton-1689.jpg>