



Math Mole

June 16, 2005

If n then $n + 1$

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- Today's Editor: Weier
- Next: Evan
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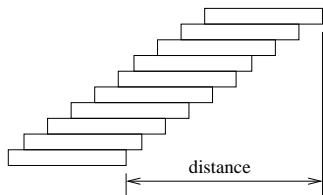
Puzzle1: Write down five odd figures so that they add up to 14.

Puzzle2: Mom decides to plant a beautiful rose garden in front of her house. With a limited budget and limited space, she buys ten rose bushes. She plants them in five rows of four rose plants each. How does she do this?

Puzzle3: How many squares are there on a chessboard? (Not just the 64, but count all the squares)

Puzzle4: Is it possible to have a party where no two attendees know the same number of people at the party?

Puzzle5: For a balanced stack of 10 dominos of length 1, what is the maximum possible horizontal distance from the right edge of the top domino to the right edge of the bottom domino? What if there are N dominos?



Mathematician of the Day



Alfred Tarski - Poland 1902-1983

- Tarski was the son of a Jewish shopkeeper and businessman, and was born with the name Alfred Teitelbaum. He also had a brother, Waclaw. He grew up and attended Schola Mazowiecka school in Poland, which during the time was partially controlled by Russia.
- Under the guidance of mathematicians Lesniewski, Lukasiewicz, Sierpinski, and Mazurkiewicz, Tarski joined the mathematics courses in Warsaw. Soon after, he changed his name to Tarski after embracing Roman Catholicism.
- His early life was plagued by anti-Semitism, but later he gained world renown for his work, and soon later moved to the United States where he spent the rest of his life.
- Tarski is recognized as one of the greatest logicians of his time, the other three being Aristotle, Frege, and Gödel. His works included the fields of set theory, measure theory, topology, geometry, classical and universal algebra, algebraic logic, various branches of formal logic and meta-mathematics. Having a wide scope of interest, Tarski also produced axioms for 'logical consequence', worked on deductive systems, the algebra of logic and the theory of definability.

Notes

Outline

Functions

- Whatever's Left

Induction, Induction what's your
Function?

- maybe a bit of recursion?