



Math Mole

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Wednesday?

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This issue

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- Quote
- Puzzle
- Today's Editor: Andri

Quote: *Science is the systematic classification of experience.*

—George Henry Lewes, English writer and critic

Puzzle:

Three guys went to a hotel manager for a room. The manager said a room would be \$30. They all paid \$10. The bellman took their luggage up to their room, but when he came back down the manager told him that he charged \$5 extra for the room and to bring the \$5 back. The bellman was mad though because the guys didn't tip him so he took \$2 and gave the men \$3 back. So each man ended up paying \$9 for the room. 3 people x \$9 = \$27 but \$27 + \$2 = \$29.

Where did the missing dollar go?

Mathematician of the Day



Leonhard Euler - Switzerland, 1707–1783

- Greatest mathematician of the 18th century.
- "Read Euler, read Euler, he is a master for us all," by Pierre-Simon Laplace.
- Euler (pronounced Oiler) was a Swiss mathematician and physicist and considered one of the founders of pure mathematics.
- Developed e , the natural logarithm (get it? e-Euler?).
- Renowned work for calculus, mathematical analysis, mechanics, optics, and observational astronomy.
- Euler's identity in trigonometry: $e^{i\pi} + 1 = 0$. It is mathematical beauty because it contains adding, multiplication, exponentiation, 0, 1, π , e , and imaginary i .
- He advanced power series, which are defined as the expression of functions as sums of infinitely many terms.
- "He did for modern analytic geometry and trigonometry what the Elements of Euclid had done for ancient geometry, and the resulting tendency to render mathematics and physics in arithmetical terms has continued ever since." Encyclopedia Britannica

Info From: Wikipedia and Encyclopedia Britannica.

Reading Assignment:

For tomorrow read the Sections 1.5 and 2.1