

## Gauss Student Problems 2013 Answers Enrichment Stage

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 Econometrics // Lecture 1: Introduction*Gauss Student Problems 2013 Answers*  
 2013 Gauss Contest Solutions Page 3 Grade 7 1. Evaluating,  $(5 \cdot 3) \cdot 2 = 15 \cdot 2 = 13$ : Answer: (E) 2. Solution 1 A number is a multiple of 9 if it is the result of multiplying 9 by an integer. Of the answers given, only 45 results from multiplying 9 by an integer, since  $45 = 9 \cdot 5$ . Solution 2

2013 Gauss Contests - CEMC

Title: Gauss Student Problems 2013 Answers Enrichment Stage Author: Leon Hirsch Subject: Gauss Student Problems 2013 Answers Enrichment Stage

*Gauss Student Problems 2013 Answers Enrichment Stage*

GAUSS STUDENT SAMPLE PROBLEMS: SOLUTIONS 7 PROBLEM 6 X, Y and Z are positive integers such that  $X^2 + Y^2 + Z^2 = 390$ . What is the value of  $X + Y + Z$ ? Find all possible solutions. SOLUTION 6 Since  $20^2 = 400$  and  $X^2 + Y^2 + Z^2 = 390 < 400$ , we see that  $X < 20$ ,  $Y < 20$  and  $Z < 20$ . 1 Set up a spreadsheet with 1 to 19 down a column (X) and across a row (Y). In each cell, calculate  $\sqrt{390 - X^2 - Y^2}$ . 2. Look for integer values.

GAUSS STUDENT SAMPLE PROBLEMS: SOLUTIONS

Gauss was about 9 years old -- already a super genius (much like Wile E. Coyote.) His teacher hated math and hated Gauss (because he was so smart). As usual, the teacher walked into the class and gave them a horribly tedious arithmetic problem. They were to work on it and not bother him. Here was the day's problem: Add the integers from 1 to 100.

*Gauss's Problem and Arithmetic Series - Cool Math*

Practice Problems: Gauss's Law. Click here to see the solutions. 1. (easy) A student measures the electric flux through a closed spherical surface of volume V to be X. She then removes the charge from inside the spherical surface and places it in a closed cylindrical surface of volume  $V/2$ . She then claims that the flux through the cylindrical surface is 2X.

*Practice Problems: Gauss's Law - physics-prep.com*

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This is a brief version of the question. Some guy worked out  $3^{10000}$ . Then he added up all the digits to make a number. Then he added up the digits of that number to make another number. He did this over and over again until there was only a one digit number. what was it. Steps please (working out) best answer to person who shows me "logical reasoning"..

*Gauss Student Problems? | Yahoo Answers*

Problems, solutions and results dating back to 1998 can be found in the chart below. For the Gauss, Pascal, Cayley, and Fermat Contests, the CEMC problem set generator can be used to create sets of past problems with customized topics.

*CEMC - Past Contests - Mathematics and Computing Contests ...*

PROBLEM 1 The cockle shells that grow in Mary's garden need exactly 10 litres of water every day and they can be watered only once a day. She has two jugs of nine litres and eleven litres capacity...

*Please help me with the Gauss Student Problems 2010 ...*

2011 Gauss Contest Solutions Page 3 Grade 7 1. Evaluating,  $5 + 4 \cdot 3 + 2 \cdot 1 = 9 \cdot 3 + 2 \cdot 1 = 6 + 2 \cdot 1 = 8 \cdot 1 = 7$ : Answer: (E) 2. We must first add 9 and 16. Thus,  $9 + 16 = p \cdot 25 = 5$ . Answer: (E) 3. Reading from the bar graph, only 1 student chose spring. Since 10 students were surveyed, then the percentage of students that chose spring was  $1/10 = 10\%$  or ...

2011 Gauss Contests - CEMC

Ramanujan, Newton and Dirichlet have 8 problems, Euler and Gauss have 12 problems, and Noether and Polya have 16 problems. Ramanujan (years 4-5) Ramanujan includes estimation, special numbers, counting techniques, fractions, clock arithmetic, ratio, colouring problems, and some problem-solving techniques. Newton (years 5-6)

*Maths Enrichment | Australian Maths Trust*

$g(\theta) = a \cos(\theta) + b \cos(2\theta) + c \cos(3\theta)$  such that  $g(0) = g(\pi/2) = g(\pi) = 0$ , where a, b, c are constants. (b) Find real numbers a, b, c such that the function.  $g(\theta) = a \cos(\theta) + b \cos(2\theta) + c \cos(3\theta)$  satisfies  $g(0) = 3$ ,  $g(\pi/2) = 1$ , and  $g(\pi) = -5$ . Read solution. Click here if solved 46.

*Gauss-Jordan elimination | Problems in Mathematics*

Solving Gauss's problem also involves looking for structure, either by making "pairs" ( $1+100=2+99=3+98=\dots=50+51$ ), or by creating a second copy of the sum to make 100 101's. In the past, some students have computed  $1+2+3+4+5+6+7+8+9=45$  and used that to compute the sum for each group of 10:

*Gauss' problem - Teaching Teachers Math*

The answer is -2. This step can be achieved by multiplying the first row by -2 and adding the resulting row to the second row. In other words, you perform the operation

*How to Use Gaussian Elimination to Solve Systems of ...*

Gauss' formula is a result of counting a quantity in a clever way. The problems Picturing Triangular Numbers, Mystic Rose, and Handshakes all use similar clever counting to come up with a formula for adding numbers. Answers: total from 1 to 10 = 55, total from 1 to 50 = 1275.

*Clever Carl - NRICH*

1. Use Gauss-Jordan elimination to find the solution to the given linear system.  $x_1 + 3x_2 + 4x_3 = 3$   $2x_1 + 7x_2 + 3x_3 = 7$   $2x_1 + 8x_2 + 6x_3 = 4$   $2. 2x_1 + 8x_2 + 4x_3 = 0$   $2x_1 + 11x_2 + 5x_3 = 9$   $4x_1 + 18x_2 + 3x_3 = 11$   $3. 2x_2 + 6x_3 = 2$   $3x_1 + 9x_2 + 4x_3 = 7$   $x_1 + 3x_2 + 5x_3 = 6$   $4. x_1 + 3x_2 + 2x_3 + 5x_4 = 11$   $x_1 + 2x_2 + 3x_3 + 5x_4 = 6$   $2x_1 + 6x_2 + 4x_3 + 7x_4 = 19$   $5x_2 + 2x_3 + 6x_4 = 5$

*Exercises: Gauss-Jordan Elimination*

$6x + 8y + 6z + 3w = -3$   $6x - 8y + 6z - 3w = 3$   $8y - 6w = 6$ . Solve the following system of linear equations by transforming its augmented matrix to reduced echelon form (Gauss-Jordan elimination). Find the vector form for the general solution.  $x_1 - x_3 - 3x_5 = 1$   $3x_1 + x_2 - x_3 + x_4 - 9x_5 = 3$   $x_1 - x_3 + x_4 - 2x_5 = 1$ .

*Gaussian-Jordan Elimination | Problems in Mathematics*

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