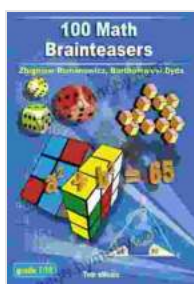


100 Mind-Boggling Math Brainteasers for Grade 10 Students: Journey into the Realm of Arithmetic, Algebra, and Geometry

Prepare to embark on a captivating intellectual adventure with '100 Math Brainteasers Grade 10,' a meticulously crafted collection of brain teasers designed to ignite curiosity, challenge problem-solving skills, and foster a deeper understanding of arithmetic, algebra, and geometry.



100 Math Brainteasers (Grade 7, 8, 9, 10). Arithmetic, Algebra and Geometry Brain Teasers, Puzzles, Games and Problems with Solutions by W. Hamilton Gibson

★★★★☆ 4.3 out of 5

| | |
|----------------------|-------------|
| Language | : English |
| File size | : 8580 KB |
| Text-to-Speech | : Enabled |
| Screen Reader | : Supported |
| Enhanced typesetting | : Enabled |
| Word Wise | : Enabled |
| Print length | : 107 pages |
| Lending | : Enabled |



Within the pages of this thought-provoking book, students will encounter a diverse array of mathematical puzzles, each carefully chosen to stimulate critical thinking, enhance logical reasoning, and cultivate a genuine appreciation for the beauty of mathematics.

Arithmetic Brainteasers

Delve into the realm of arithmetic and sharpen your number sense with a series of brainteasers that will test your mental agility and numerical prowess:

1. If you have 100 coins, each worth 10 cents, and you lose 1% of them every day, how many coins will you have after 10 days?

99 coins

2. What is the smallest positive integer that is divisible by 3, 4, and 5?

60

3. If you have 12 identical coins, one of which is slightly heavier than the others, how can you find the heavier coin using a balance scale with only two weighings?

Weigh six coins on each side. If they balance, the heavier coin is in the remaining six. Then weigh three coins on each side. If they balance, the heavier coin is the remaining three. Finally, weigh two coins on each side. The heavier coin will be on the side that is heavier.

Algebra Brainteasers

Embark on an algebraic expedition and unravel the mysteries of equations and expressions through a captivating array of brainteasers:

1. Solve for x : $x^2 - 5x + 6 = 0$

$x = 2, 3$

2. Simplify the expression: $(2x + 3)(x - 1)$

$$2x^2 + x - 3$$

3. Solve the system of equations:

$$x + y = 5$$

$$x - y = 1$$

$$x = 3, y = 2$$

Geometry Brainteasers

Explore the fascinating world of geometry and uncover the hidden relationships between shapes and their properties through a collection of intriguing brainteasers:

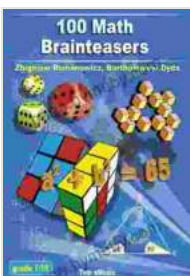
1. Find the area of a triangle with a base of 10 cm and a height of 8 cm.

$$40 \text{ cm}^2$$

2. What is the volume of a cube with an edge length of 5 cm?

$$125 \text{ cm}^3$$

3.

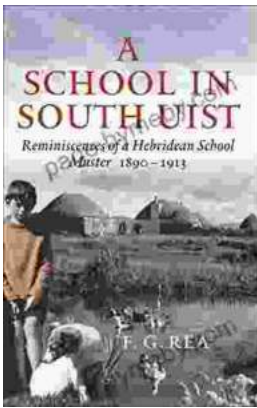


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