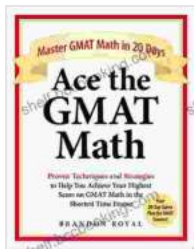# Ace The GMAT Math: The Ultimate Guide to Mastering the GMAT Quantitative Section

The GMAT Math section is one of the most challenging parts of the GMAT exam. But with the right strategies and practice, you can ace this section and improve your overall GMAT score.

Ace the GMAT Math: Master GMAT Math in 20 Days

by Jean Rose

★★★★★ 5 out of 5

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Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 413 pages
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In this article, we'll provide you with everything you need to know to master the GMAT Math section, including:

- Proven strategies for solving GMAT Math problems

- Practice questions with detailed explanations

- Expert advice from GMAT experts

Proven Strategies for Solving GMAT Math Problems

There are a number of proven strategies that you can use to solve GMAT Math problems, including:

- **Use the process of elimination.** This is a great way to narrow down the possible answers and find the correct answer more quickly.

- **Work backwards.** This can be helpful for solving problems that are difficult to solve using traditional methods.

- **Use estimation.** This can be a helpful way to get a general idea of the answer before you do the exact calculations.

- **Use your calculator wisely.** The GMAT Math section is calculator-based, so you should use your calculator to your advantage.

Practice Questions with Detailed Explanations

The best way to prepare for the GMAT Math section is to practice, practice, practice. Here are a few practice questions with detailed explanations to help you get started:

Question 1:

If $x + y = 10$ and $xy = 24$, what is the value of $x^2 + y^2$?

Answer: 130

Explanation:

We can use the formula for the square of a sum: $(a + b)^2 = a^2 + 2ab + b^2$.

Substituting $x + y$ for a and xy for b, we get:

$(x + y)^2 = x^2 + 2xy + y^2$

We know that $x + y = 10$ and $xy = 24$, so we can substitute these values into the equation:

$(10)^2 = x^2 + 2(24) + y^2$

Simplifying the equation, we get:

$100 = x^2 + 48 + y^2$

Solving for $x^2 + y^2$, we get:

$x^2 + y^2 = 100 - 48$

$x^2 + y^2 = 130$

Question 2:

A train leaves Chicago at 10:00 AM and travels at a speed of 70 mph. Another train leaves St. Louis at 11:00 AM and travels at a speed of 80 mph. If the distance between Chicago and St. Louis is 300 miles, at what time will the two trains meet?

Answer: 1:30 PM

Explanation:

To solve this problem, we need to find the time it takes for each train to travel 300 miles.

The first train travels at a speed of 70 mph, so it will take x hours to travel 300 miles:

$70x = 300$

$x = 4.29$ hours

The second train travels at a speed of 80 mph, so it will take y hours to travel 300 miles:

$80y = 300$

$y = 3.75$ hours

The two trains will meet x + y hours after the first train leaves Chicago:

$x + y = 4.29 + 3.75$

$x + y = 8.04$ hours

Since the first train leaves Chicago at 10:00 AM, the two trains will meet at:
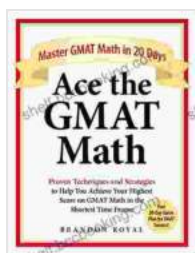
10:00 AM + 8.04 hours

1:30 PM

Expert Advice from GMAT Experts

In addition to the strategies and practice questions above, here are a few expert advice from GMAT experts:

- **Start preparing early.** The GMAT Math section is challenging, so it's important to start preparing early. This will give you plenty of time to learn the material and practice your skills.

- **Take practice tests.** Practice tests are a great way to assess your progress and identify areas where you need to improve.

- **Get help from a tutor.** If you're struggling with the GMAT Math section, consider getting help from a tutor. A tutor can help you understand the material and develop the skills you need to succeed.

The GMAT Math section is one of the most challenging parts of the GMAT exam. But with the right strategies and practice, you can ace this section and improve your overall GMAT score.

If you follow the advice in this article, you'll be well on your way to mastering the GMAT Math section.
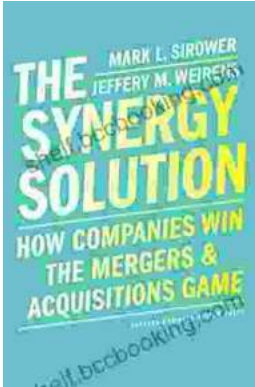
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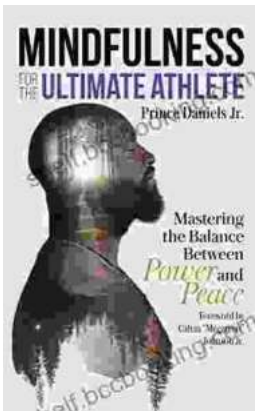
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