

# Fast Math Tricks



Resilient Educator  
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## Add large numbers

$$644 + 238$$

Round-up (644 → **650**) (238 → **240**)

SUM the round-up numbers  
 $(650 + 240) = 890$

SUM the differences between Round-up and Actual numbers  
 $(650 - 644) + (240 - 238) = (6 + 2) = 8$

SUBTRACT the SUM of round-up numbers from the SUM of differences  
 $(890 - 8) = 882$

## Subtract from 1,000

$$1,000 - 556$$

Subtract every number, except the last from 9 and subtract the final number from 10.

Step 1: Subtract **5** from 9 = **4**

Step 2: Subtract **5** from 9 = **4**

Step 3: Subtract **6** from 10 = **4**

The answer is **444**

## Multiplying 5 times any number

Multiplying the number 5 by an even number:

Take the **number being multiplied by 5** and **divide it by 2**.

**Place a zero** after it to find your answer.

Multiplying the number 5 by an odd number:

**Subtract 1** from the number being multiplied by 5.

**Divide that number by 2**, then place the **number 5** after it to find your answer.

## Division tricks

When can a number be evenly divided?

**10** if the number ends in **0**.

**9** when the digits are added together and the total is evenly divisible by **9**.

**8** if the last three digits are evenly divisible by **8** or are **000**.

**6** if it is an even number, and when the digits are added together the answer is evenly divisible by **3**.

**5** if it ends in a **0** or **5**.

**4** if it ends in **00** or a **two-digit number** that is evenly divisible by **4**.

**3** when the digits are added together and the result is evenly divisible by the number **3**.

**2** if it ends in **0, 2, 4, 6, or 8**.

## Multiplying by 9

$$9 \times 3$$

**Step 1:** Subtract **1** from the number that is being multiplied by 9.

$$3 - 1 = 2$$

**Step 2:** Subtract that number from the number **9**.

$$9 - 2 = 7$$

**Step 3:** Combine for answer.

$$9 \times 3 = 27$$

## Percentage

$$5\% \text{ of } 235$$

**Step 1:** Move the decimal point to the left by one place.

$$235 \text{ becomes } 23.5$$

**Step 2:** Divide the decimal point number by **2**.

$$23.5 / 2 = 11.75$$

For this to work, you must think of the percentage number in relation to **10**. **Five** is half of **10**, so we divide by **2**. If we want to find 20% of 235, we multiply by **2**.

## Square a 2-digit number ending in 5

**Step 1:** Multiply the first digit by itself plus 1.

**Step 2:** Put a 25 at the end.

$$35^2$$

Step 1:  $3 \times (3 + 1) = 12$

Step 2: **12** and **25** = **1225**

## Tough multiplication

EVEN NUMBERS

**Step 1:** Divide the first number in half

**Step 2:** Double the second number

**Step 3:** Multiply the two numbers

$$20 \times 120$$

↓

$$10 \times 240$$

↓

$$2400$$

## Multiplying numbers ending in zero

**Step 1:** Multiply the non-zero digits

**Step 2:** Count the number of zeros in the problem, place them at the end.

$$200 \times 400$$

↓

$$2 \times 4 = 8$$

↓

$$80,000$$

## 10 and 11 times tricks

### 10

The trick to multiplying any number by 10 is to add a zero to the end of the number.

### 11

Take the original two-digit number and put a space between the digits. Now add those two numbers together and put the result in the center.

If the numbers in the center add up to a number with two digits, insert the second number and add 1 to the first one.

$$62 \times 10 = 620$$

$$11 \times 25$$

$$\downarrow$$

$$2\_5$$

$$2\_ (2 + 5) \_ 5 = 2\_ 7 \_ 5 = 275$$

$$11 \times 88$$

$$\downarrow$$

$$8\_ 8 = 8\_ (8 + 8) \_ 8$$

$$\downarrow$$

$$(8 + 1) \_ 6 \_ 8 = 9 \_ 6 \_ 8 = 968$$

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### **Table of Contents High School Math Tips Tricks English Edition**

1. Understanding the eBook High School Math Tips Tricks English Edition
  - The Rise of Digital Reading High School Math Tips Tricks English Edition
  - Advantages of eBooks Over Traditional Books
2. Identifying High School Math Tips Tricks English Edition
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an High School Math Tips Tricks English Edition
  - User-Friendly Interface
4. Exploring eBook Recommendations from High School Math Tips Tricks English Edition

- Personalized Recommendations
- High School Math Tips Tricks English Edition User Reviews and Ratings
- High School Math Tips Tricks English Edition and Bestseller Lists
- 5. Accessing High School Math Tips Tricks English Edition Free and Paid eBooks
  - High School Math Tips Tricks English Edition Public Domain eBooks
  - High School Math Tips Tricks English Edition eBook Subscription Services
  - High School Math Tips Tricks English Edition Budget-Friendly Options
- 6. Navigating High School Math Tips Tricks English Edition eBook Formats
  - ePub, PDF, MOBI, and More
  - High School Math Tips Tricks English Edition Compatibility with Devices
  - High School Math Tips Tricks English Edition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of High School Math Tips Tricks English Edition
  - Highlighting and Note-Taking High School Math Tips Tricks English Edition
  - Interactive Elements High School Math Tips Tricks English Edition
- 8. Staying Engaged with High School Math Tips Tricks English Edition
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers High School Math Tips Tricks English Edition
- 9. Balancing eBooks and Physical Books High School Math Tips Tricks English Edition
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection High School Math Tips Tricks English Edition
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine High School Math Tips Tricks English Edition
  - Setting Reading Goals High School Math Tips Tricks English Edition
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of High School Math Tips Tricks English Edition

- Fact-Checking eBook Content of High School Math Tips Tricks English Edition
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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