

# Fast Math Tricks

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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 = **6**) (240 - 238 = **2**) (**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 test 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.

$$62 \times 10 = 620$$

$$11 \times 25$$

$$2\_5$$

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

$$11 \times 88$$

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

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

# High School Math Tips Tricks English Edition

**Rachel Sandford**



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