

Fast Math Tricks



Resilient Educator
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Add large numbers

$$644 + 238$$

Round-up ($644 \rightarrow 650$) ($238 \rightarrow 240$)

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 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.

$$62 \times 10 = 620$$

$$11 \times 25$$

$$\downarrow$$

$$2_5$$

$$\downarrow$$

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

$$11 \times 88$$

$$\downarrow$$

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

$$\downarrow$$

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

High School Math Tips Tricks English Edition

M Lipman



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