Sums. The're Math Magic

9 – Sum Handy Multiplication

Please go through each slide stopping until you have understood the concept described

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9 – Sum Handy Multiplication

Can you multiply two number between 6 and 10 just using your hands?

Here is how to do just that.

First allocate number to your fingers and thumbs

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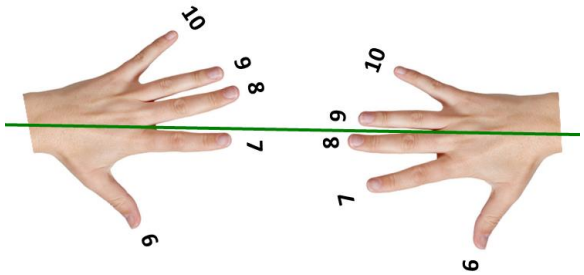
Now lets try 7 x 8

Point the 7 on one hand to the 8 on the other and draw an imaginary line just above them.



How many digits are below the line = 5

This is the number of tens = 50

Multiply the digits above the line = 3 x 2 = 6

Add these results = 50 + 6 = 56 = 7 x 8

But can you prove it?

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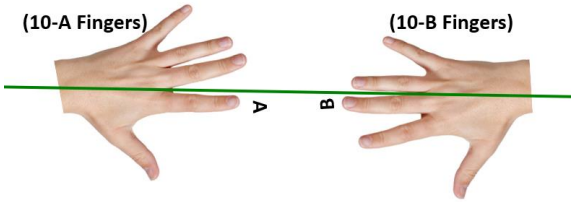
But can you prove it?

Using A x B

Point fingers A and B together



Above the line are 10-A fingers and 10-B fingers

Under the line are 5 – (10-A) fingers and 5 – (10-B) fingers

Add those under the line = 5 – 10 +A + 5 – 10 + B = A+B-10

So A+B-10 is our tens figure so multiply by 10 = 10A+10B-100

Under the line the sum is 10A+10B-100

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Under the line the sum is 10A+10B-100

Above the line we multiply = (10-A) x (10-B) = 100-10A-10B+AB

Adding these **10A+10B-100**

100-10A-10B+AB

100-100+10A-10A+10B-10B+AB

Equals **AB**

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Please go to the next lesson.

Geometric Sums