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For the most part, the key to adding/subtracting tricks is this: the order of the add-ons doesn't matter, so that the amount given can be changed in any desired way. The usual use of this is to hunt for numbers in the amount that add up to a few out of 10, since they are easy to visualize and work. Determine $3^88^217^35^12^43$, $8 \times 6 \times 2$, 17 , 3 , 5 , 1 , 2 , 4 , 3 , 8 , 6 , 2 , 17 , 3 , 1 , 1 , 2 , 2 . The addition can certainly be done directly without too much trouble, but the process is relatively tedious and error-prone. A cleaner method is to change the terms: $3^86^217^35^14^317^82^64^35^22^110^10^10^11^151$. □ beginning (color) #3D99F6 {3} color #D61F06 {8} color #20A900 {6} color #D61F06 {2} color #3D99F6 {17}-colored sky blue {3}. Skyblue {5} skyblue {2} color #20A900 {4} color #3D99F6 {3} Color #3D99F6 {17} color, #D61F06 {8} color #D61F06 {2} color #20A900 {6} color #20A900 {4} Colored sky blue {3}colored sky blue {5}color sky blue {2} $1\ 20\ 10\ 10\ 1\ 1\ 51\ 51$. □ square end is aligned $386217311243178444521\ 20\ 10\ 10\ 10\ 151$. □ Another method is useful in finding a series amount after some models, usually arithmetic progressions or geometric progressions. The general method is to manipulate the amount into another, related amount, and use the two together to undo the terms and/or achieve the desired repetition. Here's an example: Teacher Gauss asked him to fold all the integers between 1 and 100, inclusive. What is this sum? The key implementation is to change the conditions to pair numbers: $S=1^23^3\cdots 98^99100^0$ (1^100) (2^99) (3^98) \cdots (50×51) □ start $S = 1 - 2 - 3 \cdots (98 + 99 - 100 (1 - 100)$ square end aligns by $122 \cdots 9899100 (11) (299)$ (398) \cdots (5051) 101×50 50500. □ this method works well when there are also a number of terms. When there's a strange number of terms, the technique is essentially the same, but with a little more clever implementation: Now teacher Gauss has asked him to fold all the integers between 1 and 101, inclusive. What is this sum? Term pairing intuition can be formalized: $S=1^23^3\cdots 99-100-101-101-100-99\cdots 3-2-12S$ ($1-101$) ($2-101$) $100 \cdots (50-52) (51-51) (52-50) \cdots (100 \Rightarrow 2) (101 \Rightarrow 102 \times 101-101-5151)$. □ start $S = 1 - 2 - 3$ th $99\ 100\ 101 - 101 - 100 - 99$, $3 - 2 \times 2C (1 \times 101) 50$ and $52) (51 \times 51)$ This leads to a common result: nnn-term arithmetic series with the first term of AAA and the last term BBB has the amount of n (ASB)2. □-fraken (ABB) {2}. □ with a geometric series can be viewed in a similar way. Here's an example: Teacher Gauss has now asked him to find the sum of the first 10 implicit powers 2. What is this sum? As in the case of earlier, calculate $S=20^21^1\cdots 292S=21-22\cdots 210 \Rightarrow S=2S-S-210-20^1023$, $1 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$ {10}2 $\times 2$ {0} 2. {10} End $S2S \Rightarrow S 2021 \cdots 292122 \cdots 210-2S-S-210-20-1023$, where the overall strategy is to multiply by the overall ratio and then subtract. □-square □ This results in a common result: the nnn-term geometric series with the first aaa term and the total rrr ratio has a $-rn-1r^1$. □Cdot $\frac{1}{r}$. □ Analog WeekAnalog WeekJust because there is an app for this does not mean that you should use it. This week we're going analogue, reminding ourselves that we can live and live well - without smartphones, and seeing what's worth saving from time to time before we've all been hooked in 24/7. You probably haven't had to do long math for years, but you're mental math every day. Or maybe you Google math tasks ten times a day because you forget how to do any math outside of the main multiplication tables. Here are a few shortcuts that will help you do more math in your head. Calculate interest backX% from Y and Y% X. You can always change these percentages if you make math easier the other way around. So 68% of 25 and 25% of 68 = 68/4 = 17. This makes a lot of calculations easy once you memorize the percentage, which are equal to the main factions: 10% and $\frac{1}{10}12.5\% \frac{1}{5}25\% - \frac{1}{4}33.333\ldots\% - \frac{1}{3}50\% - \frac{1}{2}66.666\ldots\% - \frac{2}{3}75\% - \frac{3}{4}$ Contraction without borrowing numbersMent is easiest when you can subtract each figure without having to take from the next place up. If the second number has slightly larger numbers than the first, it becomes more complicated. To avoid borrowing places, you'll want to get rid of these big numbers. Here's how: Let's say you're calculating 925-734. This dozens of places makes things a little more complicated. It would be easier to calculate 925-724 and then subtract that additional 10 separately: 925-724 No. 201, and 201-10 191. Here's your answer. Tell me if the number is evenly divided into another numberAll (and only) multiples 2 ends in 0, 2, 4, 6 or 8. All (and only) multiples of 3 have numbers that add up to 3 (or a few more out of 3). Multiple 4: ignore everything from hundreds of place up. Divide the remaining double digit in half. Then run the test multiple 2. All (and only) multiples of 5 end in 5 or 0. Multiples out of 6: Run 2 tests and 3 tests. Multiple 7: a few tests, but they're harder than digging up your phone. This one is probably the easiest: Double a unit and subtract from dozens. For example, $1365 \rightarrow 136 \times (2 \times 5) 126 \rightarrow 12 (2 \times 6)$ If the chain ends at 0 or a few 7, the original number is divided into 7. Multiple 8: Ignore everything from thousands to place up. Divide the remaining three-digit number in half. Then half again. Then run the test multiple 2. All (and only) multiples of 9 have numbers that add up to 9 or a few 9. All (and only) multiples of 10 end to 0. To test is divided into a larger number, try to factor it down to single digits and then run the tests higher, keeping any repetitive factors together. For example, 60 and 2^23^5 . Thus, all multiples of 60 are also multiples of 2, 3 and 5. Notice 2^2 ; multiples of 60 should be divided into 4, not just 2. (150 is divided into 2, but not by 4, so it's not divided into 60.) Use these multiplication shortcuts to multiply in your head, try to turn the problem into a lighter one. For example: Doubling the number is usually easier. Thus, when multiplied by an even number, first multiply by half that number, and then by 2. Multiply by 5: First multiply by 10, then divide by 2. Multiply by 9: Multiply by 10 and subtract the number. Thus, $65^9 (65^10)-65$ and $650-65 585$. Multiply single number x at 9: First digit X-1. The second digit is 9 minus the first digit. Thus, $8^9 72$. Memorize simple arithmeticThe more basic calculations you remember, the more you can break down big math problems. If you forget your tables once, brush them up. It feels great to recognize a few 12 and realize that you can share a larger number. Find a square number a little more than the largest one that you know, if you know the square of the whole number, you can easily find the square of the next whole number by adding the first square, the first root number, and the second root number: $x^2 \times (x+1)$ For example, you know that 102 is 100. Thus, 112 and 100-10-11, or 121. And 122 = 121-11-12 = 144. And 132 = 144-12-13 = 169. And so on. To square a double digit, around it firstSay you need to square 46. First round it out in the next 10 times (adding 4) and then subtract the same amount for the new number, so you have 50 and 42. Then multiply these two numbers, and then add a square of the amount you rounded: (in this case, 42). So $462 = (50 \times 42) 42^2 - 2100 \times 16 = 2116$. By the way, when I did it mentally, 50-42 was still a little difficult for me, so I turned it into 100-21. The combination of mental math tricks really increases your strength. If you haven't followed this, here's a longer explanation that might do the trick. Fast: What is 192 ... (361.) Square complex, double digits in your ... MoreConvert temperatures approximately convert from Po Celsius to Fahrenheit, 2 and add 30. From Fahrenheit to Celsius, subtract 30 and divide into 2. (To more accurately convert C to F, multiply by 1.8 and add 32.) Order is essential: adding/subtracting is always closer to the Fahrenheit side. If you forget about the order, you know it's 32 F O C, so you can test your formula against it. If you live in one of the few countries that use the Fahrenheit temperature scale (that would be ... Read more Or just remember that the room temperature is about 20-22 degrees Celsius or 68-72 degrees Fahrenheit, and the normal body temperature is about 36-37 degrees Celsius or 97-99 F, depending on several factors. Your annual salary is about 2,000 times the hourly rate for full-time employment, \$1/hour and \$2,000/year. Your annual salary is your hourly rate, once the hours you work per week, once 52 weeks, 40^52 is 2080, but to calculate it mentally, you can round up to 2000 for the stadium figure. Double the hourly rate and add three zeros. So \$25/hour is about \$50,000/year. Or do it in reverse: Tie three digits off your paycheck and double it, and that's roughly your hourly rate. It will be two weeks low if you get paid for every weekday of the year. Let's say you get paid an hourly rate. And you want to figure out how much it's like annually ... MoreIf you want to be a little more accurate, take that rough total, and add an hourly rate of times 100. It will be only two and a half working days on a 52-week salary. More precisely, multiply by 2080 (40-52): Multiply by 2000, and set this total aside. Then multiply the hourly rate by 80 (double it, double, double, and add zero). Add this to approximate estimates and you have a 52-week salary. If you want to consider your paid vacations or other features, go use this workday calendar where you can set up rooms and workdays until you get the actual number of working hours. But I thought you were here because of the mental math. Finding more listverse shortcuts has a few simple mental mathematical shortcuts. Wikipedia has many advanced labels that cover arithmetic, squares and cubes, roots and logarithms. And better explain lists of some common conversion units like MPH and feet per second 1.5 second 1.5 . mental arithmetic tricks pdf. mental arithmetic division tricks. mental arithmetic tips and tricks. mental arithmetic subtraction tricks. math tricks mental arithmetic

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