

WORKING WITH NINES CAN BE A LOT OF FUN

LET'S COUNT BY NINES

$$9 \times 1 = 09$$

$$9 \times 2 = 18$$

$$9 \times 3 = 27$$

$$9 \times 4 = 36$$

$$9 \times 5 = 45$$

$$9 \times 6 = 54$$

$$9 \times 7 = 63$$

$$9 \times 8 = 72$$

$$9 \times 9 = 81$$

$$9 \times 10 = 90$$

- the units column goes from 9 to 0
- the tens column goes from 0 to 9
- if you put the numbers next to each other they go up and down

09182736455463728190

FIND THE MISSING NUMBER

1. have someone take a large number, then;
2. write out the original number in a different order;
3. subtract the smaller number from the larger;
4. circle any digit from the result (it cannot be zero);
5. have them give you the remaining digits of the result in any order;
6. find the digital root of the number
 - simply add the digits of the number
 - if the sum is a two digit number, again add the digits until the sum is a one digit number
 - subtract the digital root from 9 (THAT DIFFERENCE IS THE NUMBER CIRCLED; IF THE DIGITAL ROOT IS ZERO, THE NUMBER CIRCLED IS 9).

$$\begin{array}{r}
 92471047893 \\
 -10893947247 \\
 \hline
 81577100646
 \end{array}$$

DIGITAL ROOT

$$6+4+6+1+7+7+5+1=37$$

$$3+7=10$$

$$1+0=1$$

$$9-1=8$$

MAGIC OF THREE DIGIT NUMBERS

1. Have someone take any three digit number as long as the numbers do not repeat
2. Reverse the order of that number;
3. Subtract the smaller number from the larger;
4. Have them tell you the first digit of the answer;
5. There can only be nine possible answers (all have a 9 in the middle and the first and third digits have a sum of nine); they are:

- 099
- 198
- 297
- 396
- 495
- 594
- 697
- 798
- 891

$$\begin{array}{r} \text{3} \quad \text{14} \quad \text{1} \\ \cancel{4} \quad \cancel{5} \quad \cancel{1} \\ - \quad 1 \quad 5 \quad 4 \\ \hline 2 \quad 9 \quad 7 \end{array}$$

$$\begin{array}{r} \text{6} \quad \text{17} \quad \text{1} \\ \cancel{7} \quad \cancel{8} \quad \cancel{3} \\ - \quad 3 \quad 8 \quad 7 \\ \hline 3 \quad 9 \quad 6 \end{array}$$

ADDING NUMBERS WITH ANTI-NINES

1. Have someone pick a large number of any digits
2. write down a second number of the same number of digits.
3. write down a third number of the same digits.
4. write two anti-nines for the first two numbers (the sum of each digit and its anti-nine is each digit equal.
5. the sum of all five numbers is the third number less two and add a two in front of the number.

$$\begin{array}{r} \cancel{0}\cancel{0}\cancel{0}\cancel{0}\cancel{0} \\ 739405 \\ 912484 \\ 240585 \\ 260594 \\ +087515 \\ \hline 2240583 \end{array}$$

240585 240585

2240583