

Digital Root is the single number obtained by adding the individual digits of a number successively. Eg. Digital Root of  $347 = 3 + 4 + 7 = 14$ ,  $14 = 1 + 4 = 5$ . Thus, 5 is a single digit number, which is the digital root/ seed number of 347.



### Digital Root of Maths Tables 1-9

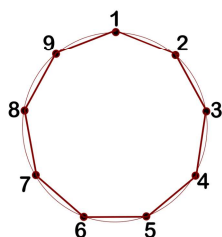


Table-1

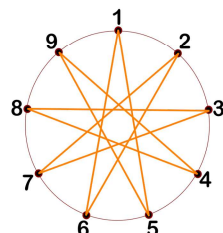


Table-4

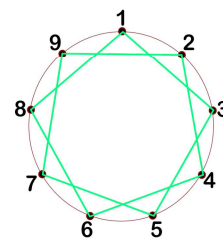


Table-7

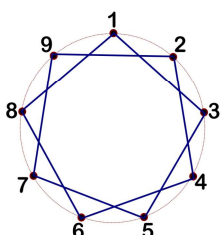


Table-2

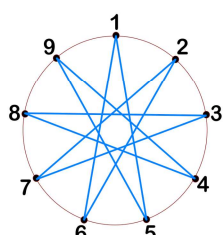


Table-5

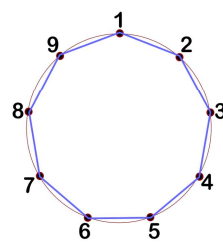


Table-8

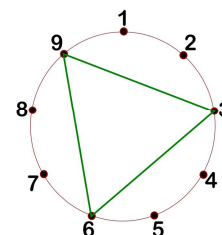


Table-3

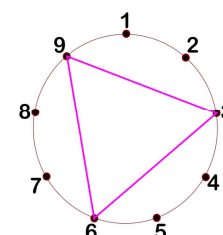


Table-6

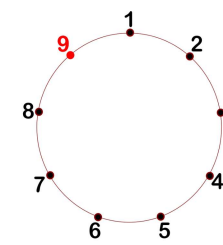


Table-9

Made by S. Rajarajan using Inkscape

In the above diagram, there exists only 5 unique patterns (why?). To represent any Multiplication Table, we need only any one of the above 5 unique patterns

### Application of Digital root concept (with example)

(1) Addition:  $887 + 914 = 1801$ , to check our answer quickly, simply add the digital root of 887, 914 and compare with the digital root of 1801. i.e LHS:  $5+5 \dots 1$ , RHS: 1 The answer is probably correct. If LHS is not equal to RHS, the answer is definitely wrong.

(2) Subtraction:  $914 - 887 = 27 \dots$  LHS:  $5-5=0$ , RHS: 9 (equivalent to 0, because when 9 is added to any number, its digital root does not change.  $0+9=9$ , DR of 97 or 997 is still 7 only)

(3) Multiplication:  $887 \times 914 = 810718 \dots$  LHS:  $5 \times 5 = 25 \dots 7$ , RHS:  $9+9+7 \dots 7$

(4) Division:  $914/887 = Q1 + R27$ , to check our answer, we use the formula (DR of Q \* DR of Divisor) + DR of remainder = DR of dividend...

$(1 \times 5) + 9 = 14 \dots 5 = \text{DR of } 914 \dots 5$

Note: When any number is divided by 9, the the remainder is the DR of that number

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