⚡ Vedic Maths Magic Tricks ⚡

Chapter 4: Instant Multiplication By Series of 9's (9, 99, 999, 9999...)

The Magic Rule: Equal Digits on Both Sides

When the number of digits in the multiplicand matches the number of 9's in the multiplier (e.g., 2-digit × 99, 3-digit × 999), we can write the answer **instantly in two parts!**

✨ Vedic Sutra: Ekayunena Purvena (One Less Than The Previous)

💡 Two-Part Answer Structure

- **Left Part (L.P):** Multiplicand − 1
- **Right Part (R.P):** Base − Multiplicand (or *All from 9 & Last from 10*)

📌 Example 1: Single Digit (Working Base = 10)

Multiply **4, 6, 7 by 9**:

4 × 9 = ?	➔	L.P: (4 − 1) = **3** | R.P: (10 − 4) = **6**	➔	**36**
6 × 9 = ?	➔	L.P: (6 − 1) = **5** | R.P: (10 − 6) = **4**	➔	**54**
7 × 9 = ?	➔	L.P: (7 − 1) = **6** | R.P: (10 − 7) = **3**	➔	**63**

Multiplying 2-Digit, 3-Digit & 4-Digit Numbers

📌 Example 2: 76 × 99 (Working Base = 100)

76 × 99 = ? ➔ L.P: (76 − 1) = **75** | R.P: (100 − 76) = **24** ➔ **7,524**

📌 Example 3: 458 × 999 (Working Base = 1000)

458 × 999 = ? ➔ L.P: (458 − 1) = **457** | R.P: (1000 − 458) = **542** ➔**457,542**

📌 Example 4: 8914 × 9999 (Working Base = 10,000)

8914 × 9999 = ? ➔ L.P: (8914 − 1) = **8913** | R.P: (10000 − 8914) = **1086** ➔**89,131,086**

⚔️ Conventional Math vs Vedic Math

Conventional (76 × 99):
76 × 99 = 684
+ 6840 = **7524** (Slow & tedious!)

VS

Vedic Method:
L.P = 76 − 1 = **75**
R.P = 100 − 76 = **24** → **7524** ⚡

✏️ Practice Exercises

Section A: Single Digit (Multiply by 9)

#	Problem	Vedic Breakdown (L.P | R.P)	Answer
1	3 × 9	(3 − 1) | (10 − 3) = 2 | 7	**27**
2	5 × 9	(5 − 1) | (10 − 5) = 4 | 5	**45**
3	9 × 9	(9 − 1) | (10 − 9) = 8 | 1	**81**

Section B: Two Digits (Multiply by 99)

#	Problem	Vedic Breakdown (L.P | R.P)	Answer
1	56 × 99	(56 − 1) | (100 − 56) = 55 | 44	**5,544**
2	82 × 99	(82 − 1) | (100 − 82) = 81 | 18	**8,118**
3	93 × 99	(93 − 1) | (100 − 93) = 92 | 07	**9,207**

Section C: Multi-Digits (Multiply by 999, 9999...)

#	Problem	Vedic Breakdown (L.P | R.P)	Answer
1	721 × 999	(721 − 1) | (1000 − 721) = 720 | 279	**720,279**
2	895 × 999	(895 − 1) | (1000 − 895) = 894 | 105	**894,105**
3	9995 × 9999	(9995 − 1) | (10000 − 9995) = 9994 | 0005	**99,940,005**