

Multiplication Worksheet-1 — Nikhilam Sutra (Using a Base)

Sutra: Nikhilam — "all from 9 and the last from 10" · multiply two numbers near a base (10, 100, 1000)

Find each product using the Nikhilam method (base, deficiency/surplus, then LHS | RHS).

Name: _____

Date: _____

Score: _____ / 20

1) $98 \times 103 =$

Answer: _____

2) $990 \times 997 =$

Answer: _____

3) $97 \times 112 =$

Answer: _____

4) $10 \times 14 =$

Answer: _____

5) $108 \times 102 =$

Answer: _____

6) $86 \times 96 =$

Answer: _____

7) $87 \times 92 =$

Answer: _____

8) $91 \times 88 =$

Answer: _____

9) $1007 \times 995 =$

Answer: _____

10) $91 \times 103 =$

Answer: _____

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Name: _____

Date: _____

Score: _____ / 20

11) $86 \times 94 =$

Answer: _____

12) $111 \times 114 =$

Answer: _____

13) $991 \times 990 =$

Answer: _____

14) $87 \times 96 =$

Answer: _____

15) $103 \times 111 =$

Answer: _____

16) $999 \times 1006 =$

Answer: _____

17) $10 \times 12 =$

Answer: _____

18) $14 \times 8 =$

Answer: _____

19) $95 \times 87 =$

Answer: _____

20) $109 \times 101 =$

Answer: _____

Multiplication Worksheet-2 — Corollaries of the Nikhilam Sutra*Three corollaries of Nikhilam — squares near a base, squares ending in 5, and multiplication by 9s.*

Use the corollary shown for each part. Show your working in the box, then write the answer.

Name: _____

Date: _____

Score: _____ / 20

Part A — Corollary I: Square a number near a base*Sutra: Nikhilam — LHS = number + deficiency, RHS = (deficiency × deficiency)*

1) $(87)^2 =$

Answer: _____

2) $(93)^2 =$

Answer: _____

3) $(106)^2 =$

Answer: _____

4) $(112)^2 =$

Answer: _____

5) $(991)^2 =$

Answer: _____

6) $(1007)^2 =$

Answer: _____

Part B — Corollary II: Square a number ending in 5*Sutra: Ekadhikena Purvena — LHS = $d \times (d+1)$, RHS = 25*

7) $(25)^2 =$

Answer: _____

8) $(35)^2 =$

Answer: _____

9) $(55)^2 =$

Answer: _____

10) $(75)^2 =$

Answer: _____

11) $(135)^2 =$

Answer: _____

12) $(145)^2 =$

Answer: _____

Multiplication Worksheet-2 — Corollaries of the Nikhilam Sutra

Three corollaries of Nikhilam — squares near a base, squares ending in 5, and multiplication by 9s.

Use the corollary shown for each part. Show your working in the box, then write the answer.

Name: _____

Date: _____

Score: _____ / 20

Part C — Corollary III: Multiply by 9, 99, 999 ...

Sutra: Ekanyunena Purvena — LHS = (number – 1), RHS = complement

13) $9 \times 7 =$

Answer: _____

14) $9 \times 6 =$

Answer: _____

15) $99 \times 23 =$

Answer: _____

16) $99 \times 34 =$

Answer: _____

17) $99 \times 58 =$

Answer: _____

18) $99 \times 47 =$

Answer: _____

19) $999 \times 46 =$

Answer: _____

20) $999 \times 72 =$

Answer: _____

Multiplication Worksheet-3 — Urdhva-Tiryak Sutra (Vertically & Crosswise)

Sutra: Urdhva-Tiryagbhyam — "vertically and crosswise" · general multiplication of any two numbers

Find each product using the vertically-and-crosswise method. Show your working, then write the answer.

Name: _____

Date: _____

Score: _____ / 20

1) $84 \times 78 =$

Answer: _____

2) $48 \times 76 =$

Answer: _____

3) $559 \times 401 =$

Answer: _____

4) $779 \times 317 =$

Answer: _____

5) $29 \times 9 =$

Answer: _____

6) $48 \times 89 =$

Answer: _____

7) $68 \times 32 =$

Answer: _____

8) $89 \times 6 =$

Answer: _____

9) $38 \times 4 =$

Answer: _____

10) $56 \times 55 =$

Answer: _____

Multiplication Worksheet-3 — Urdhva-Tiryak Sutra (Vertically & Crosswise)

Sutra: Urdhva-Tiryagbhyam — "vertically and crosswise" · general multiplication of any two numbers

Find each product using the vertically-and-crosswise method. Show your working, then write the answer.

Name: _____

Date: _____

Score: _____ / 20

11) $840 \times 814 =$

Answer: _____

12) $28 \times 41 =$

Answer: _____

13) $415 \times 694 =$

Answer: _____

14) $87 \times 62 =$

Answer: _____

15) $50 \times 82 =$

Answer: _____

16) $58 \times 8 =$

Answer: _____

17) $81 \times 24 =$

Answer: _____

18) $303 \times 696 =$

Answer: _____

19) $591 \times 129 =$

Answer: _____

20) $53 \times 78 =$

Answer: _____

Multiplication Worksheet-1 — Nikhilam Sutra (Using a Base)

- | | | | |
|------------|-----------|-----------|-------------|
| 1) 10094 | 2) 987030 | 3) 10864 | 4) 140 |
| 5) 11016 | 6) 8256 | 7) 8004 | 8) 8008 |
| 9) 1001965 | 10) 9373 | 11) 8084 | 12) 12654 |
| 13) 981090 | 14) 8352 | 15) 11433 | 16) 1004994 |
| 17) 120 | 18) 112 | 19) 8265 | 20) 11009 |

Multiplication Worksheet-2 — Corollaries of the Nikhilam Sutra

- | | | | |
|-----------|------------|-----------|-----------|
| 1) 7569 | 2) 8649 | 3) 11236 | 4) 12544 |
| 5) 982081 | 6) 1014049 | 7) 625 | 8) 1225 |
| 9) 3025 | 10) 5625 | 11) 18225 | 12) 21025 |
| 13) 63 | 14) 54 | 15) 2277 | 16) 3366 |
| 17) 5742 | 18) 4653 | 19) 45954 | 20) 71928 |

Multiplication Worksheet-3 — Urdhva-Tiryak Sutra

- | | | | |
|------------|------------|------------|-----------|
| 1) 6552 | 2) 3648 | 3) 224159 | 4) 246943 |
| 5) 261 | 6) 4272 | 7) 2176 | 8) 534 |
| 9) 152 | 10) 3080 | 11) 683760 | 12) 1148 |
| 13) 288010 | 14) 5394 | 15) 4100 | 16) 464 |
| 17) 1944 | 18) 210888 | 19) 76239 | 20) 4134 |