

Worksheet 3.1 — Check for Vinculum Numbers

Sutras: Ekadhikena Purvena ("by one more than the one before") + Nikhilam ("all from 9 and the last from 10")

Convert each number into a vinculum number, then verify your answer using the Unit Digit Sum (UDS).

Name: _____

Date: _____

Score: _____ / 20

1) 2039 →

Vinculum: _____

UDS check: _____ = _____

2) 4610 →

Vinculum: _____

UDS check: _____ = _____

3) 7877 →

Vinculum: _____

UDS check: _____ = _____

4) 716 →

Vinculum: _____

UDS check: _____ = _____

5) 5095 →

Vinculum: _____

UDS check: _____ = _____

6) 66 →

Vinculum: _____

UDS check: _____ = _____

7) 643 →

Vinculum: _____

UDS check: _____ = _____

8) 1900 →

Vinculum: _____

UDS check: _____ = _____

9) 517 →

Vinculum: _____

UDS check: _____ = _____

10) 84 →

Vinculum: _____

UDS check: _____ = _____

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Name: _____

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11) 308 →

Vinculum: _____
UDS check: _____ = _____

12) 712 →

Vinculum: _____
UDS check: _____ = _____

13) 893 →

Vinculum: _____
UDS check: _____ = _____

14) 506 →

Vinculum: _____
UDS check: _____ = _____

15) 76 →

Vinculum: _____
UDS check: _____ = _____

16) 17 →

Vinculum: _____
UDS check: _____ = _____

17) 478 →

Vinculum: _____
UDS check: _____ = _____

18) 6880 →

Vinculum: _____
UDS check: _____ = _____

19) 527 →

Vinculum: _____
UDS check: _____ = _____

20) 73 →

Vinculum: _____
UDS check: _____ = _____

Worksheet 3.1 — Check for Vinculum Numbers

A bar over a digit means it is negative. Other valid vinculum forms may exist — the UDS must match in every case.

1) $2039 = 204\bar{1}$ (UDS 5)

2) $4610 = 5\bar{4}10$ (UDS 2)

3) $7877 = 1\bar{2}\bar{1}\bar{2}\bar{3}$ (UDS 2)

4) $716 = 1\bar{3}2\bar{4}$ (UDS 5)

5) $5095 = 51\bar{1}5$ (UDS 1)

6) $66 = 1\bar{3}\bar{4}$ (UDS 3)

7) $643 = 1\bar{4}43$ (UDS 4)

8) $1900 = 2\bar{1}00$ (UDS 1)

9) $517 = 52\bar{3}$ (UDS 4)

10) $84 = 1\bar{2}4$ (UDS 3)

11) $308 = 31\bar{2}$ (UDS 2)

12) $712 = 1\bar{3}12$ (UDS 1)

13) $893 = 1\bar{1}\bar{1}3$ (UDS 2)

14) $506 = 51\bar{4}$ (UDS 2)

15) $76 = 1\bar{2}\bar{4}$ (UDS 4)

16) $17 = 2\bar{3}$ (UDS 8)

17) $478 = 5\bar{2}\bar{2}$ (UDS 1)

18) $6880 = 1\bar{3}\bar{1}\bar{2}0$ (UDS 4)

19) $527 = 53\bar{3}$ (UDS 5)

20) $73 = 1\bar{3}3$ (UDS 1)