Werkbundel

Cijferen



cijferen optellen

<https://www.xnapda.be/filmpjes/3de-leerjaar/cijferend-optellen-tot-1-000-zonder-overschrijding-manier-1>

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 1 | 2 | 3 |
| + | 6 | 5 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 3 |
| + | 3 | 2 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 7 | 8 |
| + | 3 | 2 | 1 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 4 | 9 |
| + | 5 | 2 | 0 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 5 | 2 | 7 |
| + | 3 | 7 | 1 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 5 | 3 |
| + | 2 | 2 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 7 | 2 | 6 |
| + | 1 | 1 | 3 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 3 | 1 |
| + | 3 | 4 | 5 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 9 |
| + | 4 | 2 | 0 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 6 | 9 |
| + | 5 | 2 | 0 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 5 | 4 | 3 |
| + | 1 | 1 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 7 | 3 |
| + | 6 | 2 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 8 | 3 |
| + | 2 | 1 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 8 | 2 | 3 |
| + | 1 | 2 | 3 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 5 | 6 |
| + | 2 | 3 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 1 |
| + | 6 | 4 | 5 |
|  |  |  |  |

Naam:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

cijferen optellen: verbetersleutel

Les 1: verbetersleutel

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 1 | 2 | 3 |
| + | 6 | 5 | 4 |
|  | 7 | 7 | 7 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 3 |
| + | 3 | 2 | 6 |
|  | 5 | 6 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 7 | 8 |
| + | 3 | 2 | 1 |
|  | 6 | 9 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 4 | 9 |
| + | 5 | 2 | 0 |
|  | 9 | 6 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 5 | 2 | 7 |
| + | 3 | 7 | 1 |
|  | 8 | 9 | 8 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 5 | 3 |
| + | 2 | 2 | 4 |
|  | 4 | 7 | 7 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 7 | 2 | 6 |
| + | 1 | 1 | 3 |
|  | 8 | 3 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 3 | 1 |
| + | 3 | 4 | 5 |
|  | 5 | 7 | 6 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 9 |
| + | 4 | 2 | 0 |
|  | 6 | 6 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 6 | 9 |
| + | 5 | 2 | 0 |
|  | 8 | 8 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 5 | 4 | 3 |
| + | 1 | 1 | 2 |
|  | 6 | 5 | 5 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 7 | 3 |
| + | 6 | 2 | 4 |
|  | 8 | 9 | 7 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 8 | 3 |
| + | 2 | 1 | 2 |
|  | 6 | 9 | 5 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 8 | 2 | 3 |
| + | 1 | 2 | 3 |
|  | 9 | 4 | 6 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 5 | 6 |
| + | 2 | 3 | 2 |
|  | 5 | 8 | 8 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 1 |
| + | 6 | 4 | 5 |
|  | 8 | 8 | 6 |

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cijferen optellen met E overschrijding

<https://www.xnapda.be/filmpjes/4de-leerjaar/cijferend-optellen-tot-1-000-met-1-overschrijding-manier-1-herhaling>

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 3 | 6 |
| + | 1 | 2 | 5 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 1 | 3 | 8 |
| + | 2 | 4 | 5 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 7 | 4 |
| + | 5 | 1 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 3 | 9 |
| + | 6 | 2 | 1 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 6 | 6 | 6 |
| + | 2 | 2 | 5 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 7 | 5 |
| + | 5 | 1 | 8 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 3 | 4 |
| + | 1 | 2 | 8 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 6 | 2 | 6 |
| + | 2 | 5 | 8 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 6 | 7 |
| + | 4 | 1 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 6 | 5 | 4 |
| + | 3 | 3 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 7 | 8 | 9 |
| + | 1 | 0 | 3 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 3 |
| + | 4 | 4 | 8 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 3 | 4 |
| + | 7 | 5 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 9 |
| + | 5 | 4 | 3 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 2 | 2 |
| + | 5 | 6 | 9 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 5 | 2 | 3 |
| + | 2 | 6 | 8 |
|  |  |  |  |

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cijferen optellen met E overschrijding: verbetersleutel

Les 2: verbetersleutel

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 2 | 3 | 6 |
| + | 1 | 2 | 5 |
|  | 3 | 6 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 1 | 3 | 8 |
| + | 2 | 4 | 5 |
|  | 3 | 8 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 3 | 7 | 4 |
| + | 5 | 1 | 6 |
|  | 8 | 9 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 2 | 3 | 9 |
| + | 6 | 2 | 1 |
|  | 8 | 6 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 6 | 6 | 6 |
| + | 2 | 2 | 5 |
|  | 8 | 9 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 3 | 7 | 5 |
| + | 5 | 1 | 8 |
|  | 8 | 9 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 3 | 3 | 4 |
| + | 1 | 2 | 8 |
|  | 4 | 6 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 6 | 2 | 6 |
| + | 2 | 5 | 8 |
|  | 8 | 8 | 4 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 3 | 6 | 7 |
| + | 4 | 1 | 4 |
|  | 7 | 8 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 6 | 5 | 4 |
| + | 3 | 3 | 6 |
|  | 9 | 9 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 7 | 8 | 9 |
| + | 1 | 0 | 3 |
|  | 8 | 9 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 2 | 4 | 3 |
| + | 4 | 4 | 8 |
|  | 6 | 9 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 2 | 3 | 4 |
| + | 7 | 5 | 6 |
|  | 9 | 9 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 2 | 4 | 9 |
| + | 5 | 4 | 3 |
|  | 7 | 9 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 4 | 2 | 2 |
| + | 5 | 6 | 9 |
|  | 9 | 9 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 5 | 2 | 3 |
| + | 2 | 6 | 8 |
|  | 7 | 9 | 1 |

Naam:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

cijferen optellen met 1 overschrijding

De overschrijding zit niet meer bij de E maar kan nu ook ergens anders zitten.

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 5 | 6 |
| + | 2 | 2 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 4 |
| + | 1 | 8 | 3 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 8 | 5 |
| + | 1 | 3 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 7 | 3 |
| + | 3 | 3 | 3 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 6 |
| + | 2 | 4 | 7 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 9 | 9 |
| + | 1 | 2 | 0 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 1 | 4 | 6 |
| + | 6 | 8 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 7 | 5 | 5 |
| + | 2 | 3 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 7 | 9 |
| + | 3 | 1 | 3 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 7 | 5 |
| + | 3 | 3 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 8 | 6 | 2 |
| + | 1 | 2 | 9 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 1 | 6 |
| + | 6 | 2 | 5 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 7 | 9 | 5 |
| + | 1 | 2 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 5 | 9 |
| + | 1 | 3 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 9 |
| + | 6 | 2 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 7 | 3 | 5 |
| + | 1 | 7 | 3 |
|  |  |  |  |

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cijferen optellen met 1 overschrijding: verbetersleutel

Les 3: verbetersleutel

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 4 | 5 | 6 |
| + | 2 | 2 | 4 |
|  | 6 | 8 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 2 | 4 | 4 |
| + | 1 | 8 | 3 |
|  | 4 | 2 | 7 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 3 | 8 | 5 |
| + | 1 | 3 | 2 |
|  | 4 | 1 | 7 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 2 | 7 | 3 |
| + | 3 | 3 | 3 |
|  | 6 | 0 | 6 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 2 | 4 | 6 |
| + | 2 | 4 | 7 |
|  | 4 | 9 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 4 | 9 | 9 |
| + | 1 | 2 | 0 |
|  | 6 | 1 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 1 | 4 | 6 |
| + | 6 | 8 | 2 |
|  | 8 | 2 | 8 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 7 | 5 | 5 |
| + | 2 | 3 | 6 |
|  | 9 | 9 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 3 | 7 | 9 |
| + | 3 | 1 | 3 |
|  | 6 | 9 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 2 | 7 | 5 |
| + | 3 | 3 | 4 |
|  | 6 | 0 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 8 | 6 | 2 |
| + | 1 | 2 | 9 |
|  | 9 | 9 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 3 | 1 | 6 |
| + | 6 | 2 | 5 |
|  | 9 | 4 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 7 | 9 | 5 |
| + | 1 | 2 | 2 |
|  | 9 | 1 | 7 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 4 | 5 | 9 |
| + | 1 | 3 | 2 |
|  | 5 | 9 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 2 | 4 | 9 |
| + | 6 | 2 | 6 |
|  | 8 | 7 | 5 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 7 | 3 | 5 |
| + | 1 | 7 | 3 |
|  | 9 | 0 | 8 |

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cijferen optellen met 2 overschrijding

<https://www.xnapda.be/filmpjes/3de-leerjaar/cijferend-optellen-tot-1-000-met-2-overschrijdingen-manier-1>

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 1 | 5 | 5 |
| + | 2 | 4 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 4 | 7 |
| + | 5 | 6 | 5 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 5 | 7 |
| + | 3 | 4 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 9 | 9 |
| + | 1 | 2 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 8 | 4 |
| + | 2 | 5 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 6 | 7 | 2 |
| + | 1 | 4 | 9 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 2 | 6 |
| + | 4 | 9 | 8 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 2 | 1 |
| + | 2 | 9 | 9 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 6 | 5 | 7 |
| + | 2 | 8 | 7 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 5 | 6 |
| + | 3 | 8 | 9 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 7 | 9 |
| + | 5 | 8 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 7 | 5 | 6 |
| + | 1 | 5 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 5 | 7 | 9 |
| + | 1 | 8 | 8 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 9 | 3 |
| + | 2 | 9 | 9 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 6 | 4 |
| + | 3 | 3 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 6 | 3 | 2 |
| + | 2 | 8 | 9 |
|  |  |  |  |

Naam:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

cijferen optellen met 2 overschrijding: verbetersleutel

Les 4: verbetersleutel

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 1 | 5 | 5 |
| + | 2 | 4 | 6 |
|  | 4 | 0 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 3 | 4 | 7 |
| + | 5 | 6 | 5 |
|  | 9 | 1 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 2 | 5 | 7 |
| + | 3 | 4 | 4 |
|  | 6 | 0 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 4 | 9 | 9 |
| + | 1 | 2 | 2 |
|  | 6 | 2 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 3 | 8 | 4 |
| + | 2 | 5 | 6 |
|  | 6 | 4 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 6 | 7 | 2 |
| + | 1 | 4 | 9 |
|  | 8 | 2 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 4 | 2 | 6 |
| + | 4 | 9 | 8 |
|  | 9 | 2 | 4 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 3 | 2 | 1 |
| + | 2 | 9 | 9 |
|  | 6 | 2 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 6 | 5 | 7 |
| + | 2 | 8 | 7 |
|  | 9 | 4 | 4 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 4 | 5 | 6 |
| + | 3 | 8 | 9 |
|  | 8 | 4 | 3 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 2 | 7 | 9 |
| + | 5 | 8 | 2 |
|  | 8 | 6 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 7 | 5 | 6 |
| + | 1 | 5 | 6 |
|  | 9 | 1 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 5 | 7 | 9 |
| + | 1 | 8 | 8 |
|  | 7 | 6 | 7 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 4 | 9 | 3 |
| + | 2 | 9 | 9 |
|  | 7 | 9 | 2 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 2 | 6 | 4 |
| + | 3 | 3 | 6 |
|  | 6 | 0 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 6 | 3 | 2 |
| + | 2 | 8 | 9 |
|  | 9 | 2 | 1 |

Naam:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

cijferen optellen door elkaar

Er kan nu geen overschrijding zijn, er kan 1 keer overschrijding zijn of zelfs 2 keer.

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 1 | 2 | 3 |
| + | 3 | 2 | 1 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 2 | 7 |
| + | 5 | 7 | 3 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 5 | 9 | 9 |
| + | 1 | 3 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 8 |
| + | 7 | 5 | 1 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 5 | 7 |
| + | 2 | 8 | 9 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 8 | 2 |
| + | 1 | 1 | 7 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 1 | 9 | 8 |
| + | 6 | 2 | 1 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 4 | 7 |
| + | 2 | 1 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 6 | 4 | 8 |
| + | 2 | 4 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 7 | 8 |
| + | 2 | 6 | 6 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 8 | 9 |
| + | 1 | 2 | 0 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 8 | 2 |
| + | 2 | 1 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 8 | 6 |
| + | 3 | 2 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 9 | 8 |
| + | 2 | 2 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 6 | 5 |
| + | 1 | 8 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 4 | 2 |
| + | 3 | 2 | 4 |
|  |  |  |  |

Naam:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

cijferen optellen door elkaar: verbetersleutel

Les 5: verbetersleutel

Er kan nu geen overschrijding zijn, er kan 1 keer overschrijding zijn of zelfs 2 keer.

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 1 | 2 | 3 |
| + | 3 | 2 | 1 |
|  | 4 | 4 | 4 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 3 | 2 | 7 |
| + | 5 | 7 | 3 |
|  | 9 | 0 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 5 | 9 | 9 |
| + | 1 | 3 | 2 |
|  | 7 | 3 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 4 | 8 |
| + | 7 | 5 | 1 |
|  | 9 | 9 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 3 | 5 | 7 |
| + | 2 | 8 | 9 |
|  | 6 | 4 | 6 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 8 | 2 |
| + | 1 | 1 | 7 |
|  | 5 | 9 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 1 | 9 | 8 |
| + | 6 | 2 | 1 |
|  | 8 | 1 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 3 | 4 | 7 |
| + | 2 | 1 | 4 |
|  | 5 | 6 | 1 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  | 1 |  |
|  | 6 | 4 | 8 |
| + | 2 | 4 | 2 |
|  | 8 | 9 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 4 | 7 | 8 |
| + | 2 | 6 | 6 |
|  | 7 | 4 | 4 |

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| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 8 | 9 |
| + | 1 | 2 | 0 |
|  | 5 | 9 | 9 |

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| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 8 | 2 |
| + | 2 | 1 | 4 |
|  | 6 | 9 | 6 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 4 | 8 | 6 |
| + | 3 | 2 | 2 |
|  | 8 | 0 | 8 |

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| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 | 1 |  |
|  | 3 | 9 | 8 |
| + | 2 | 2 | 2 |
|  | 6 | 2 | 0 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  | 1 |  |  |
|  | 2 | 6 | 5 |
| + | 1 | 8 | 4 |
|  | 4 | 4 | 9 |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 3 | 4 | 2 |
| + | 3 | 2 | 4 |
|  | 6 | 6 | 6 |

Cijferend vermenigvuldigen

<https://www.xnapda.be/filmpjes/3de-leerjaar/cijferend-vermenigvuldigen-tot-1-000-met-1-overschrijding-manier-3>

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  | 1 | 3 | 4 |  |  |  | 7 | 5 |  |  | 3 | 0 | 5 |  |
| x |  |  | 5 |  | x |  |  | 6 |  | x |  |  | 3 |  |
|  |  |  |  |  |   |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  |  | 7 | 8 |  |  | 1 | 1 | 5 |  |  |  | 4 | 8 |  |
| x |  |  | 3 |  | x |  |  | 4 |  | x |  |  | 6 |  |
|  |  |  |  |  |   |  |  |  |  |  |  |  |  |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  | 2 | 4 | 9 |  |  |  | 9 | 6 |  |  | 2 | 0 | 7 |  |
| x |  |  | 3 |  | x |  |  | 4 |  | x |  |  | 3 |  |
|  |  |  |  |  |   |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  |  | 6 | 9 |  |  | 1 | 4 | 8 |  |  |  | 7 | 6 |  |
| x |  |  | 5 |  | x |  |  | 3 |  | x |  |  | 4 |  |
|  |  |  |  |  |   |  |  |  |  |  |  |  |  |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  | 2 | 0 | 7 |  |  |  | 9 | 3 |  |  | 2 | 6 | 4 |  |
| x |  |  | 2 |  | x |  |  | 5 |  | x |  |  | 3 |  |
|  |  |  |  |  |   |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  |  | 8 | 4 |  |  | 1 | 1 | 2 |  |  | 2 | 2 | 5 |  |
| x |  |  | 4 |  | x |  |  | 4 |  | x |  |  | 4 |  |
|  |  |  |  |  |   |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Cijferend vermenigvuldigen: verbetersleutel

<https://www.xnapda.be/filmpjes/3de-leerjaar/cijferend-vermenigvuldigen-tot-1-000-met-1-overschrijding-manier-3>

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  | 1 | 3 | 4 |  |  |  | 7 | 5 |  |  | 3 | 0 | 5 |  |
| x |  |  | 5 |  | x |  |  | 6 |  | x |  |  | 3 |  |
|  | 1 | 2 |  |  |   |  | 3 |  |  |  |  | 1 |  |
|  | 6 | 7 | 0 |  |  | 4 | 5 | 0 |  |  | 9 | 1 | 5 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  |  | 7 | 8 |  |  | 1 | 1 | 5 |  |  |  | 4 | 8 |  |
| x |  |  | 3 |  | x |  |  | 4 |  | x |  |  | 6 |  |
|  |  | 2 |  |  |   |  | 2 |  |  |  |  | 5 |  |
|  | 2 | 3 | 4 |  |  | 4 | 6 | 0 |  |  | 2 | 9 | 6 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  | 2 | 4 | 9 |  |  |  | 9 | 6 |  |  | 2 | 0 | 7 |  |
| x |  |  | 3 |  | x |  |  | 4 |  | x |  |  | 3 |  |
|  | 1 | 2 |  |  |   |  | 2 |  |  |  |  | 2 |  |
|  | 7 | 4 | 7 |  |  | 3 | 8 | 4 |  |  | 6 | 2 | 1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  |  | 6 | 9 |  |  | 1 | 4 | 8 |  |  |  | 7 | 6 |  |
| x |  |  | 5 |  | x |  |  | 3 |  | x |  |  | 4 |  |
|  |  | 4 |  |  |   | 1 | 2 |  |  |  | 3 | 2 |  |
|  | 3 | 4 | 5 |  |  | 4 | 4 | 4 |  |  | 3 | 0 | 4 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  | 2 | 0 | 7 |  |  |  | 9 | 3 |  |  | 2 | 6 | 4 |  |
| x |  |  | 2 |  | x |  |  | 5 |  | x |  |  | 3 |  |
|  |  | 1 |  |  |   |  | 1 |  |  |  | 1 | 1 |  |
|  | 4 | 1 | 4 |  |  | 4 | 6 | 5 |  |  | 7 | 9 | 2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | H | T | E |  |  | H | T | E |  |  | H | T | E |  |
|  |  | 8 | 4 |  |  | 1 | 1 | 2 |  |  | 2 | 2 | 5 |  |
| x |  |  | 4 |  | x |  |  | 4 |  | x |  |  | 4 |  |
|  |  | 1 |  |  |   |  |  |  |  |  | 1 | 2 |  |
|  | 3 | 3 | 6 |  |  | 4 | 4 | 8 |  |  | 9 | 0 | 0 |

Cijferend aftrekken zonder lenen

<https://www.xnapda.be/filmpjes/4de-leerjaar/cijferend-aftrekken-tot-1-000-zonder-overschrijding>

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 5 | 9 | 7 |
| \_ | 3 | 7 | 1 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 2 | 5 | 8 |
| \_ | 2 | 2 | 4 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 7 | 2 | 6 |
| \_ | 1 | 1 | 3 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 9 | 5 | 9 |
| \_ | 3 | 4 | 5 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 6 | 4 | 8 |
| \_ | 2 | 4 | 2 |
|  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 4 | 7 | 8 |
| \_ | 2 | 6 | 6 |
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|  | H | T | E |
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|  | 4 | 8 | 9 |
| \_ | 1 | 2 | 0 |
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|  | H | T | E |
|  |  |  |  |
|  | 4 | 8 | 6 |
| \_ | 2 | 1 | 4 |
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|  | H | T | E |
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|  | 4 | 8 | 6 |
| \_ | 3 | 2 | 2 |
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|  | H | T | E |
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|  | 3 | 9 | 8 |
| \_ | 2 | 2 | 2 |
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|  | H | T | E |
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|  | 2 | 9 | 5 |
| \_ | 1 | 8 | 4 |
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|  | H | T | E |
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|  | 3 | 4 | 8 |
| \_ | 3 | 2 | 4 |
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|  | H | T | E |
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|  | 2 | 4 | 8 |
| \_ | 2 | 4 | 7 |
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|  | H | T | E |
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|  | 4 | 9 | 9 |
| \_ | 1 | 2 | 0 |
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|  | H | T | E |
|  |  |  |  |
|  | 7 | 9 | 6 |
| \_ | 6 | 8 | 2 |
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|  | H | T | E |
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|  | 7 | 5 | 5 |
| \_ | 2 | 3 | 3 |
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Cijferend aftrekken zonder lenen: verbetersleutel

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|  | H | T | E |
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|  | 5 | 9 | 7 |
| \_ | 3 | 7 | 1 |
|  | 2 | 2 | 6 |

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|  | H | T | E |
|  |  |  |  |
|  | 2 | 5 | 8 |
| \_ | 2 | 2 | 4 |
|  |  | 3 | 4 |

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| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 7 | 2 | 6 |
| \_ | 1 | 1 | 3 |
|  | 6 | 1 | 3 |

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|  | H | T | E |
|  |  |  |  |
|  | 9 | 5 | 9 |
| \_ | 3 | 4 | 5 |
|  | 6 | 1 | 4 |

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| --- | --- | --- | --- |
|  | H | T | E |
|  |  |  |  |
|  | 6 | 4 | 8 |
| \_ | 2 | 4 | 2 |
|  | 4 | 0 | 6 |

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|  | H | T | E |
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|  | 4 | 7 | 8 |
| \_ | 2 | 6 | 6 |
|  | 2 | 1 | 2 |

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|  | H | T | E |
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|  | 4 | 8 | 9 |
| \_ | 1 | 2 | 0 |
|  | 3 | 6 | 9 |

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|  | H | T | E |
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|  | 4 | 8 | 6 |
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| \_ | 3 | 2 | 4 |
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|  | H | T | E |
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|  | 4 | 9 | 9 |
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| \_ | 2 | 3 | 3 |
|  | 5 | 2 | 2 |

Cijferend aftrekken met lenen

<https://www.xnapda.be/filmpjes/5de-leerjaar/cijferend-aftrekken-tot-1-000-met-1-overschrijding-manier-2>

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|  | H | T | E |
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|  | 3 | 6 | 2 |
| \_ | 1 | 2 | 4 |
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|  | H | T | E |
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| \_ | 2 | 5 | 6 |
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|  | H | T | E |
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|  | H | T | E |
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Cijferend aftrekken met lenen: verbetersleutel

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|  | 3 | 2 | 1 |
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|  | 5 | 4 | 8 |
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|  | 3 | 0 | 9 |

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|  | 3 | 6 | 2 |
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|  | 5 | 1 | 0 |
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|  | 2 | 9 | 8 |

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|  | 4 | 7 | 0 |
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| \_ | 4 | 4 | 8 |
|  | 4 | 0 | 6 |