# 

**Mathe sicher können  
Diagnose- und Fördermaterial**

**N7 Schriftlich addieren und subtrahieren**

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| Inhalt |  |  |
| Baustein N7A | **Ich kann schriftlich addieren und das Rechenverfahren erklären** ◼ Diagnosematerial (1 Seite Standortbestimmung)  ◼ Fördermaterial in drei Fördereinheiten (5 Seiten) | |
| Baustein N7B | Ich kann schriftlich subtrahieren und das Rechenverfahren erklären  ◼ Diagnosematerial (1 Seite Standortbestimmung)  ◼ Fördermaterial in drei Fördereinheiten (5 Seiten) | |

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|  | Dieses Material wurde durch Theresa Deutscher, Kathrin Akinwunmi & Christoph Selter konzipiert und hier redaktionell bearbeitet. Es kann unter Creative Commons Lizenz BY-NC-SA (Namensnennung – Nicht Kommerziell – Weitergabe unter gleichen Bedingungen) 4.0 International weiterverwendet werden. |
| **Zitierbar als** | Theresa Deutscher, Kathrin Akinwunmi & Christoph Selter (2023). Mathe sicher können Diagnose- und Förderbausteine N7: Schriftlich addieren und subtrahieren. Open Educational Resources unter mathe-sicher-koennen.dzlm.de/nz#n7 |
| **Hinweis zu**  **verwandtem Material** | Das Material ist in Print auch bei Cornelsen kaufbar, wurde hier jedoch leicht weiterentwickelt. Zu dem Diagnose- und Fördermaterial sind auch Handreichungen verfügbar. |

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| A | Kann ich schriftlich addieren und das Rechenverfahren erklären? | |
| 1 | Addition ohne Übertrag | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | 2 | 6 | 4 | | + | 7 | 1 | 2 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | 1 | 3 | 4 | | + | 5 | 5 | 4 | |  |  |  |  | | |  |
| 2 | Addition mit Übertrag |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | 2 | 4 | 1 | | + | 5 | 8 | 2 | |  |  |  |  | | b) | |  |  |  |  | | --- | --- | --- | --- | |  | 3 | 3 | 4 | | + | 2 | 9 | 7 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | 6 | 3 | 8 | | + | 5 | 4 | 7 | |  |  |  |  | | | d) | Sarah rechnet die Aufgabe 427 + 456. Beschreibe, was sie macht.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | |  | 4 | 2 | 7 | | + | 4 | 5 | 6 | |  |  |  | 3 | | Sarah kommt zuerst auf die 3 im Ergebnis, weil … |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | |  | 4 | 2 | 7 | | + | 4 | 5 | 6 | |  |  | 10 |  | |  |  |  | 3 | | Sarah hat noch 10 Einer übrig und schreibt diese   unter die 5. Das ist falsch. Sie müsste dort eine 1   hinschreiben, weil … | | | | | | |  |
| 3 | Addition mit der Null | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | 7 | 3 | 0 | | + | 1 | 0 | 7 | |  |  |  |  | | b) | |  |  |  |  | | --- | --- | --- | --- | |  | 1 | 4 | 0 | | + | 5 | 1 | 0 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | 3 | 4 | 2 | | + | 1 | 6 | 7 | |  |  |  |  | | |  |
| 4 | Addition mit unterschiedlicher Stellenzahl | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | 34 + 152   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | | b) | 719 + 64   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | | c) | 1697 + 85   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | | |  |

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| A | Ich kann schriftlich addieren und das Rechenverfahren erklären | | |
| 1 | Zahlen mit Material darstellen | | |
| 1.1 | Rechenwege vergleichen | | |
|  | a) | Kenan und Tim rechnen die Aufgabe 562 + 314. Beschreibe ihre Rechenwege.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Kenan rechnet so:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 562 | + | 314 | = | 876 | | 2 | + | 4 | = | 6 | | 60 | + | 10 | = | 70 | | 500 | + | 300 | = | 800 | | Tim rechnet so:   |  |  |  | | --- | --- | --- | | H | Z | E | | 5 | 6 | 2 | | + 3 | 1 | 4 | | 8 | 7 | 6 | | | |
|  | b) | Markiere die Einer in gelb, die Zehner in rot und die Hunderter in grün.  Was fällt dir auf? Was ist gleich? Was ist verschieden? | |
| 1.2 | Rechenwege ausprobieren | | |
|  | Rechne die Aufgabe 152 + 437 so wie Kenan und so wie Tim.   |  |  |  | | --- | --- | --- | | Kenan rechnet so: |  | Tim rechnet so: | | | |
| 1.3 | Rechne schriftlich untereinander | | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 2 | 4 | 1 | | + | 1 | 2 | 3 | |  |  |  |  | | b) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 3 | 8 | 2 | | + | 4 | 1 | 2 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 6 | 5 | 3 | | + | 2 | 3 | 6 | |  |  |  |  | | d) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 6 | 5 | 3 | | + | 2 | 3 | 6 | |  |  |  |  | | | | |
| 1.4 | Rechnen mit Ziffernkarten | | |
|  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 |   Nimm dir die Ziffernkarten | | |
|  | a) | Lege mit den Ziffernkarten immer zwei dreistellige Zahlen und addiere sie. Schreibe die Rechnungen in dein Heft. | Beispiel:   |  |  |  | | --- | --- | --- | | 4 | 3 | 2 | | 1 | 2 | 4 |   Rechnung:   |  |  |  |  | | --- | --- | --- | --- | |  | 4 | 3 | 2 | | + | 1 | 2 | 4 | |  | 5 | 5 | 6 | |
|  | b) | Lege die Aufgabe 432 + 124. Vertausche immer zwei Ziffernkarten.  Überlege zuerst, ob das Ergebnis kleiner oder größer wird,  dann rechne aus und überprüfe. |
|  | c) | Finde die Aufgabe mit dem kleinsten Ergebnis.  Finde die Aufgabe mit dem größten Ergebnis. Wie gehst du vor? |
| 2 | Addition mit Übertrag | | |
| 2.1 | Rechenwege vergleichen | | |
|  | Kenan und Tim rechnen die Aufgabe 284 + 365.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Kenan rechnet so:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 284 | + | 365 | = | 649 | | 4 | + | 5 | = | 9 | | 80 | + | 60 | = | 140 | | 200 | + | 300 | = | 500 | |  | Tim rechnet so:   |  |  |  | | --- | --- | --- | | H | Z | E | | 2 | 8 | 4 | | +3 | 6 | 5 | | 5  1 | 14 | 9 | | 8 | 7 | 6 | | | Kenan  Wenn ich die Aufgabe mit Würfelmaterial nachlege, kann ich 10 Zehner gegen einen Hunderter eintauschen. |  | Tim  Bei mir ist das genauso.  Ich kann in meiner Rechnung auch  10 Zehner zu einem Hunderter bündeln. | | | |
|  | a) | Was meint Kenan? Lege die Aufgabe mit Würfelmaterial und erkläre. | |
|  | b) | Was meint Tim? Erkläre an seiner Rechnung und vergleiche mit Kenans Vorgehen | |
|  | c) | Dilara verwendet eine kürzere Schreibweise als Tim. Was macht sie anders?  Beschreibe zuerst und notiere ihre Idee dann in der Sprechblase.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Dilara rechnet so:   |  |  |  | | --- | --- | --- | | H | Z | E | | 2 | 8 | 4 | | +3  1 | 6 | 5 | | 8 | 7 | 6 | | Dilara | | |
| 2.2 | Rechenwege ausprobieren | | |
|  | Rechne die Aufgabe 391 + 287 so wie Tim und so wie Dilara.  Erkläre die Rechenwege.   |  |  |  | | --- | --- | --- | | Tim rechnet so: |  | Dilara rechnet so: | | | |

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| 2.3 | Rechenwege vergleichen | | |
|  | Kenan, Tim und Dilara rechnen die Aufgabe 489 + 257.  Beschreibe ihre Rechenwege. Was ist gleich? Was ist verschieden?   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 489 | + | 257 | = | 746 | | 9 | + | 7 | = | 9 | | 80 | + | 50 | = | 140 | | 400 | + | 200 | = | 500 |   Kenan | Tim   |  |  |  | | --- | --- | --- | | H | Z | E | | 2 | 8 | 4 | | + 3 | 6 | 5 | | 5  1 | 13  1 | 16 | | 8 | 7 | 6 | | Dilara   |  |  |  | | --- | --- | --- | | H | Z | E | | 4 | 8 | 9 | | + 2  1 | 5  1 | 7 | | 7 | 4 | 6 | | | | |
| 2.4 | Rechenwege ausprobieren | | |
|  | a) | Rechne die Aufgabe 376 + 158, so wie Tim und so wie Dilara.   |  |  |  | | --- | --- | --- | | Tim rechnet so: |  | Dilara rechnet so: | | |
|  | b) | Rechne die Aufgabe 298 + 493 so wie Tim und so wie Dilara.   |  |  |  | | --- | --- | --- | | Tim rechnet so: |  | Dilara rechnet so: | | |
| 2.5 | Rechnen mit Ziffernkarten | | |
|  | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |   Nimm dir die Ziffernkarten | | |
|  | a) | Lege Aufgaben mit **einem** Übertrag.  Schreibe die Rechnungen in dein Heft. | Beispiel:   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | + |  |  |  | |  | 4 | 4 | 4 | |
|  | b) | Wie findest du Aufgaben mit **zwei** Überträgen? Erkläre.  Lege die Aufgaben und schreibe die Rechnungen in dein Heft. |
|  | c) | Finde Aufgaben, deren Ergebnis möglichst nah an 444 liegt.  Wie gehst du vor? |

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| 3 | Addition mit der Null | |
| 3.1 | Rechenwege vergleichen | |
|  | a) | Kenan und Dilara rechnen die Aufgabe 230 + 174. Beschreibe ihre Rechenwege.  Wie kommen Kenan und Dilara auf die Null im Ergebnis?   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 230 | + | 174 | = | 404 | | 0 | + | 4 | = | 4 | | 30 | + | 70 | = | 100 | | 200 | + | 100 | = | 300 |   Kenan | |  |  |  | | --- | --- | --- | | **H** | **Z** | **E** | | 2 | 3 | 0 | | +1  1 | 7 | 4 | | 4 | 0 | 4 |     Dilara | |
|  |  |  |
|  | b) | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Welchen Fehler macht Tara?  Warum ist das falsch? | |  |  |  |  | | --- | --- | --- | --- | |  | 3 | 0 | 5 | | + | 5 | 3 | 4 | |  | 8 | 0 | 9 | | Tara | |
| 3.2 | Rechne schriftlich untereinander | |
|  | Rechne die Aufgabe 152 + 437 so wie Kenan und so wie Tim.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 4 | 3 | 1 | | + | 5 | 0 | 6 | |  |  |  |  | | b) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 4 | 0 | 1 | | + | 5 | 3 | 6 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 2 | 7 | 0 | | + | 1 | 6 | 0 | |  |  |  |  | | d) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 4 | 8 | 3 | | + | 1 | 2 | 6 | |  |  |  |  | |   Schreibe die fehlenden Ziffern in die grauen Kästchen.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | e) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 7 | 4 |  | | + | 1 | 5 | 3 | |  | 8 | 9 | 3 | | f) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 6 | 0 | 7 | | + | 3 | 2 |  | |  | 9 |  | 7 | | g) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 2 | 7 | 0 | | + | 2 |  | 0 | |  |  | 0 |  | | h) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 5 | 3 | 4 | | + | 1 | 0 |  | |  | 6 |  | 4 | | | |

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| 3.3 | Rechnen mit Ziffernkarten | | |
|  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 0 | 0 | 2 | 3 | 4 | 6 |   Nimm dir die Ziffernkarten | | Beispiel:   |  |  |  | | --- | --- | --- | | 2 | 0 | 4 | | 6 | 0 | 3 |   Rechnung:   |  |  |  |  | | --- | --- | --- | --- | |  | 2 | 0 | 4 | | + | 6 | 0 | 3 | |  | 8 | 0 | 7 | |
|  | a) | Lege mit den Ziffernkarten immer zwei dreistellige Zahlen  und addiere sie. Schreibe die Rechnungen in dein Heft. |
|  | b) | Finde die Aufgabe mit dem kleinsten Ergebnis.  Finde die Aufgabe mit dem größten Ergebnis. Wie gehst du vor? |
| 4 | Addition mit unterschiedlicher Stellenzahl | | |
| 4.1 | Fehler erklären | | |
|  | Jonas rechnet 462 + 1237. Welchen Fehler macht Jonas? Warum ist das falsch?   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | 4 | 6 | 2 |  | | + | 1 | 2 | 3 | 7 | |  | 5 | 8 | 5 | 7 | |  |  | | | |
| 4.2 | Richtig untereinander rechnen | | |
|  | Schreibe untereinander und rechne aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | 47 + 821   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | b) | 364 + 27   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | c) | 456 + 37   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | c) | 371 + 7986   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | | |
| 4.3 | Rechnen mit Ziffernkarten  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | | |
|  | Nimm dir die Ziffernkarten  Du darfst Ziffernkarten auch mehrmals verwenden.  Erfinde Additionsaufgaben. Alle grauen Kästchen müssen belegt werden.  Lege zuerst mit Ziffernkarten. Schreibe dann auf und rechne aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | | | b) | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | | | | |
|  | |  |  |  |  | | --- | --- | --- | --- | | c) | Wie heißt das größte Ergebnis, welches erreicht werden kann?  Probiere zuerst im Heft aus. Begründe. | | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  |  | | | |

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| B | Kann ich schriftlich subtrahieren und das Rechenverfahren erklären? | |
| 1 | Subtraktion ohne Übertrag | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | 8 | 9 | 6 | | – | 1 | 2 | 3 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | 7 | 9 | 8 | | – | 6 | 5 | 4 | |  |  |  |  | | |  |
| 2 | Subtraktion mit Übertrag |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | 7 | 2 | 6 | | – | 3 | 5 | 1 | |  |  |  |  | | b) | |  |  |  |  | | --- | --- | --- | --- | |  | 8 | 4 | 5 | | – | 3 | 4 | 7 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | 6 | 3 | 1 | | – | 5 | 7 | 9 | |  |  |  |  | | |  |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | d) | □ Ich rechne so:   |  |  |  | | --- | --- | --- | | 6 | 7  8 | 10  2 | | – 4 | 3 | 8 | | 2 | 4 | 4 | |  | □ Ich rechne so:   |  |  |  | | --- | --- | --- | | 6 | 8 | 10  2 | | – 4 | 3  1 | 8 | | 2 | 4 | 4 | |  | □ Ich rechne anders:  Schreibe auf.   |  |  |  | | --- | --- | --- | | 6 | 8 | 2 | | – 4 | 3 | 8 | |  |  |  | |  |  | |  |
| 3 | Subtraktion mit der Null | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | 9 | 0 | 9 | | – | 4 | 0 | 1 | |  |  |  |  | | b) | |  |  |  |  | | --- | --- | --- | --- | |  | 6 | 8 | 7 | | – | 2 | 8 | 0 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | 7 | 0 | 5 | | – | 4 | 6 | 3 | |  |  |  |  | | |  |
| 4 | Subtraktion mit unterschiedlicher Stellenzahl | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | 847 – 63   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | | b) | 1850 – 141   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  |  |  |  |  |  | |  | | |

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| B | Ich kann schriftlich subtrahieren und das Rechenverfahren erklären | | |
| 1 | Subtraktion ohne Übertrag | | |
| 1.1 | Rechenwege vergleichen | | |
|  | a) | Kenan und Dilara rechnen die Aufgabe 683 – 251. Beschreibe ihre Rechenwege.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Kenan rechnet so:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | 683 | – | 251 | = | 432 | | 3 | – | 1 | = | 2 | | 80 | – | 50 | = | 30 | | 600 | – | 200 | = | 400 | |  | Dilara rechnet so:   |  |  |  | | --- | --- | --- | | **H** | **Z** | **E** | | 6 | 8 | 3 | | – 2 | 5 | 1 | | 4 | 3 | 2 | | | |
|  | b) | Markiere die Einer in gelb, die Zehner in rot und die Hunderter in grün.  Was fällt dir auf? Was ist gleich? Was ist verschieden? | |
| 1.2 | Rechenwege ausprobieren | | |
|  | Rechne die Aufgabe 865 – 432 so wie Kenan und so wie Dilara.   |  |  |  | | --- | --- | --- | | Kenan rechnet so: |  | Tim rechnet so: | | | |
| 1.3 | Rechne schriftlich untereinander | | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 6 | 4 | 2 | | – | 3 | 2 | 1 | |  |  |  |  | | b) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 5 | 8 | 3 | | – | 4 | 4 | 2 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 7 | 5 | 9 | | – | 1 | 4 | 6 | |  |  |  |  | | d) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 9 | 6 | 5 | | – | 6 | 3 | 2 | |  |  |  |  | | | | |
| 1.4 | Rechnen mit Ziffernkarten | | |
|  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | 6 |   Nimm dir die Ziffernkarten | | |
|  | a) | Lege mit den Ziffernkarten immer eine dreistellige Zahl und subtrahiere sie von 798. Schreibe die Rechnungen in dein Heft. | Beispiel:   |  |  |  | | --- | --- | --- | | 2 | 6 | 4 |   Rechnung:   |  |  |  |  | | --- | --- | --- | --- | |  | 7 | 8 | 9 | | – | 2 | 6 | 4 | |  | 5 | 3 | 4 | |
|  | b) | Lege die Aufgabe 798 – 264. Vertausche immer zwei Ziffernkarten. Überlege zuerst, ob das Ergebnis kleiner oder größer wird, dann rechne aus und überprüfe. |
|  | c) | Finde die Aufgabe mit dem kleinsten Ergebnis.  Finde die Aufgabe mit dem größten Ergebnis. Wie gehst du vor? |
| 2 | Subtraktion mit Übertrag | | |
| 2.1 | Übertrag erklären | | |
|  | a) | Sarah und Emily rechnen die Aufgabe 515 - 324.  Wie rechnest du? Kreuze an.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Sarah rechnet so:   |  |  |  | | --- | --- | --- | | 4    5 | 10  1 | 5 | | – 3 | 2 | 4 | | 1 | 9 | 1 |   □ Ich rechne wie Sarah |  | Emily rechnet so:   |  |  |  | | --- | --- | --- | | 5 | 10   1 | 5 | | – 3  1 | 2 | 4 | | 1 | 9 | 1 |   □ Ich rechne wie Emily | | |
|  | b) | Lege die Aufgabe mit Würfelmaterial nach und erkläre deinen Rechenweg.  Die Tipps können dir helfen.   |  |  |  | | --- | --- | --- | | Sarah  Ich entbündele einen Hunderter, damit ich  die zwei Zehner abziehen kann. |  | Emily  Ich erweitere mit  zehn Zehnern und einem Hunderter, damit ich die zwei Zehner abziehen kann. | | |
|  |  |  | |
|  | c)  … weil ich die zehn Zehner, die ich dazu tue,  wieder abziehe.  □  □ | Bei deinem Rechenweg veränderst du die Ziffern. Warum darfst du das?  Kreuze richtige Antworten an. Erkläre dann in deinen eigenen Worten.  Tara  … weil der Unterschied zwischen beiden Zahlen gleich bleibt.  Rico  □  … weil man die Ziffern  so verändern darf,  wie man will.   |  |  |  | | --- | --- | --- | | Leonie | … weil zehn Zehner ein Hunderter sind. | Tim | |  |  | □ | | |
| 2.2 | Übertrag üben | | |
|  | Rechne aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 6 | 2 | 5 | | – | 3 | 8 | 1 | |  |  |  |  | | b) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 7 | 5 | 8 | | – | 2 | 9 | 3 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 9 | 5 | 4 | | – | 3 | 2 | 6 | |  |  |  |  | | d) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 5 | 6 | 3 | | – | 2 | 6 | 7 | |  |  |  |  | | | | |
| 2.3 | Übertrag erklären | | |
|  | Sarah und Emily rechnen die Aufgabe 634 - 259.  Wie rechnest du? Kreuze an und beschreibe deinen Rechenweg.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Sarah rechnet so:   |  |  |  | | --- | --- | --- | | 5   6 | 10   2  3 | 10  4 | | –2 | 5 | 9 | | 3 | 7 | 5 |   □ Ich rechne wie Sarah |  | Emily rechnet so:  Ich erweitere immer.  Ich entbündele immer.   |  |  |  | | --- | --- | --- | | 6 | 10   3 | 4 | | –2  1 | 5  1 | 9 | | 3 | 7 | 5 |   □ Ich rechne wie Emily | | | |
| 2.4 | Überträge üben | | |
|  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | Rechne die Aufgabe 924 – 659 mit  deinem Rechenweg.  Erkläre, wie du rechnest. | | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  |  |  |  | | – |  |  |  | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 6 | 3 | 2 | | – | 1 | 9 | 6 | |  |  |  |  | | d) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 8 | 7 | 1 | | – | 3 | 7 | 3 | |  |  |  |  | | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 7 | 1 | 2 | | – | 4 | 2 | 3 | |  |  |  |  | | b) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 5 | 1 | 1 | | – | 4 | 5 | 9 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 8 | 6 | 8 | | – | 2 | 7 | 9 | |  |  |  |  | | d) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 9 | 2 | 4 | | – | 3 | 2 | 7 | |  |  |  |  | | | | |
|  |  | | |
| 2.5 | Rechnen mit Ziffernkarten | | |
|  | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |   Nimm dir die Ziffernkarten  Lege mit den Ziffernkarten immer zwei dreistellige Zahlen  und subtrahiere sie. | | |
|  | a) | Finde Aufgaben, deren Ergebnis möglichst nah an 399 liegt.  Schreibe die Rechnungen in dein Heft. Wie gehst du vor? | Beispiel:   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | – |  |  |  | |  | 3 | 9 | 9 | |
|  | b) | Finde Aufgaben, deren Ergebnis möglichst nah an 100 liegt.  Schreibe die Rechnungen in dein Heft. Wie gehst du vor? |
|  | c) | Suche dir weitere Ergebniszahlen aus und versuche,  passende Aufgaben zu finden.  Schreibe die Aufgaben und Ergebnisse in dein Heft. |

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| 3 | Subtraktion mit der Null | | |
| 3.1 | Rechenweg erklären | | |
|  | a) | Sarah und Emily rechnen die Aufgabe 608 – 318.  Wie rechnest du? Kreuze an und beschreibe deinen Rechenweg.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Sarah rechnet so:   |  |  |  | | --- | --- | --- | | 5   6 | 10  0 | 8 | | –3 | 1 | 8 | | 2 | 9 | 0 |   □ Ich rechne wie Sarah |  | Emily rechnet so:   |  |  |  | | --- | --- | --- | | 6 | 10   0 | 8 | | –3  1 | 1 | 8 | | 2 | 9 | 0 |   □ Ich rechne wie Emily | | |
|  | b) | Kenan rechnet die Aufgabe 407 - 235. Dabei macht er einen Fehler.  Welchen Fehler macht Kenan? Warum ist das falsch?   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  | | --- | --- | --- | --- | |  | 4 | 0 | 7 | | – | 2 | 3 | 5 | |  | 2 | 0 | 2 | |  |  | | |
| 3.2 | Rechne schriftlich untereinander | | |
|  | Rechne aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 9 | 3 | 4 | | – | 4 | 0 | 2 | |  |  |  |  | | b) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 9 | 0 | 4 | | – | 4 | 3 | 2 | |  |  |  |  | | c) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 5 | 0 | 3 | | – | 3 | 0 | 4 | |  |  |  |  | | d) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 5 | 0 | 4 | | – | 3 | 0 | 3 | |  |  |  |  | |   Schreibe die fehlenden Ziffern in die grauen Kästchen.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | e) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 8 |  | 3 | | – | 2 | 0 | 3 | |  |  | 2 |  | | f) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 3 |  | 5 | | – | 1 |  | 2 | |  | 2 | 0 |  | | g) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 7 | 0 | 6 | | – | 5 |  | 0 | |  |  | 6 |  | | h) | |  |  |  |  | | --- | --- | --- | --- | |  | **H** | **Z** | **E** | |  | 6 | 0 |  | | – | 2 | 4 | 5 | |  | 3 |  | 5 | | | | |
| 3.3 | Rechnen mit Ziffernkarten | | |
|  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 0 | 1 | 2 | 3 | 4 | 5 |   Nimm dir die Ziffernkarten | | Beispiel:   |  |  |  | | --- | --- | --- | | 4 | 2 | 0 | | 3 | 1 | 5 |   Rechnung:   |  |  |  |  | | --- | --- | --- | --- | |  | 4 | 2 | 0 | | – | 3 | 1 | 5 | |  | 1 | 0 | 5 | |
|  | a) | Lege mit den Ziffernkarten immer zwei dreistellige Zahlen und subtrahiere sie. Schreibe die Rechnungen in dein Heft. |
|  | b) | Finde die Aufgabe mit dem kleinsten Ergebnis.  Finde die Aufgabe mit dem größten Ergebnis. Wie gehst du vor? |
| 4 | Subtraktion mit unterschiedlicher Seitenzahl | | |
| 4.1 | Fehler erklären | | |
|  | Jonas rechnet die Aufgabe 1835 – 671. Dabei macht er einen Fehler.  Welchen Fehler macht Jonas? Warum ist das falsch?   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | 1 | 8 | 3 | 5 | | – | 6 | 7 | 1 |  | |  | 5 | 1 | 2 | 5 | |  |  | | | |
| 4.2 | Richtig untereinander rechnen | | |
|  | Schreibe untereinander und rechne aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | 857 – 83   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | b) | 142 – 63   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | c) | 1869 – 540   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | c) | 1400 – 56   |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | |  |  |  |  |  | | | | |
| 4.3 | Rechnen mit Ziffernkarten | | |
|  | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |   Nimm dir die Ziffernkarten  Du darfst Ziffernkarten auch mehrmals verwenden.  Erfinde Subtraktionsaufgaben. Alle grauen Kästchen müssen belegt werden.  Lege zuerst mit Ziffernkarten. Schreibe dann auf und rechne aus.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | a) | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | | | b) | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | |  | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | + |  |  |  |  | |  |  |  |  |  | | | | |
|  | |  |  |  |  | | --- | --- | --- | --- | | c) | Wie heißt das größte Ergebnis, welches erreicht werden kann?  Probiere zuerst im Heft aus. Begründe. | | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | **T** | **H** | **Z** | **E** | |  |  |  |  |  | | – |  |  |  |  | |  |  |  |  |  | |  |  | | | |