#

**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.  |

|  |  |
| --- | --- |
| A | Kann ich schriftlich addieren und das Rechenverfahren erklären? |
| 1 | Addition ohne Übertrag |
|  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| a) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2 | 6 | 4 |
| + | 7 | 1 | 2 |
|  |  |  |  |

 | c) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1 | 3 | 4 |
| + | 5 | 5 | 4 |
|  |  |  |  |

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  |  |
| 2 | Addition mit Übertrag |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |  |  |
| --- | --- | --- | --- |
|  | 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 |
|  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| a) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 7 | 3 | 0 |
| + | 1 | 0 | 7 |
|  |  |  |  |

 | b) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 1 | 4 | 0 |
| + | 5 | 1 | 0 |
|  |  |  |  |

 | c) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 3 | 4 | 2 |
| + | 1 | 6 | 7 |
|  |  |  |  |

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 |  |
| 4 | Addition mit unterschiedlicher Stellenzahl |
|  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| a) | 34 + 152

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

 | b) | 719 + 64

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |
|  |  |  |  |  |  |
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|  |  |  |  |  |  |

 | 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 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 |
|  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 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 |
|  51 | 14 | 9 |
|  8 | 7 | 6 |

  |
|  KenanWenn ich die Aufgabe mit Würfelmaterial nachlege, kann ich 10 Zehner gegen einen Hunderter eintauschen. |  |  TimBei mir ist das genauso.Ich kann in meiner Rechnung auch10 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 |
| +31 | 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: |

 |

|  |  |
| --- | --- |
| 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 |
|   51 | 131 | 16 |
|  8 | 7 | 6 |

 | Dilara

|  |  |  |
| --- | --- | --- |
| H | Z | E |
|   4 | 8 | 9 |
| + 21 | 51 | 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 |
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|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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? |

|  |  |
| --- | --- |
| 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 |
| +11 | 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 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 |

 |

 |

|  |  |
| --- | --- |
| 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?

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|  | 4 | 6 | 2 |  |
| + | 1 | 2 | 3 | 7 |
|  | 5 | 8 | 5 | 7 |

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| 4.2 | Richtig untereinander rechnen |
|  | Schreibe untereinander und rechne aus.

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| a) | 47 + 821

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 | b) | 364 + 27

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 | c) | 456 + 37

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 | c) | 371 + 7986

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| 4.3 | Rechnen mit Ziffernkarten

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| 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| a) |

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|  | **T** | **H** | **Z** | **E** |
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| c) | Wie heißt das größte Ergebnis, welches erreicht werden kann?Probiere zuerst im Heft aus. Begründe. |
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| B | Kann ich schriftlich subtrahieren und das Rechenverfahren erklären? |
| 1 | Subtraktion ohne Übertrag |
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| a) |

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|  | 8 | 9 | 6 |
| – | 1 | 2 | 3 |
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 | c) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 7 | 9 | 8 |
| – | 6 | 5 | 4 |
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  |  |
| 2 | Subtraktion mit Übertrag |  |
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| – | 3 | 5 | 1 |
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|  | 8 | 4 | 5 |
| – | 3 | 4 | 7 |
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|  | 6 | 3 | 1 |
| – | 5 | 7 | 9 |
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| d) | □ Ich rechne so:

|  |  |  |
| --- | --- | --- |
|   6 | 78 | 102 |
| – 4 | 3 | 8 |
|  2 | 4 | 4 |

 |  | □ Ich rechne so:

|  |  |  |
| --- | --- | --- |
|   6 | 8 | 102 |
| – 4 | 31 | 8 |
|   2 | 4 | 4 |

 |  | □ Ich rechne anders: Schreibe auf.

|  |  |  |
| --- | --- | --- |
|   6 | 8 | 2 |
| – 4 | 3 | 8 |
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 |  |
| 3 | Subtraktion mit der Null |
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| a) |

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|  | 9 | 0 | 9 |
| – | 4 | 0 | 1 |
|  |  |  |  |

 | b) |

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|  | 6 | 8 | 7 |
| – | 2 | 8 | 0 |
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|  | 7 | 0 | 5 |
| – | 4 | 6 | 3 |
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 |  |
| 4 | Subtraktion mit unterschiedlicher Stellenzahl |
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| a) | 847 – 63

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 | 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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 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 |
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| a) |

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|  | **H** | **Z** | **E** |
|  | 6 | 4 | 2 |
| – | 3 | 2 | 1 |
|  |  |  |  |

 | b) |

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| --- | --- | --- | --- |
|  | **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 |
|  |  |  |  |

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 |
| 1.4 | Rechnen mit Ziffernkarten |
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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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.

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| Sarah rechnet so:

|  |  |  |
| --- | --- | --- |
| 4  5 | 101 | 5 |
| – 3 | 2 | 4 |
|   1 | 9 | 1 |

□ Ich rechne wie Sarah |  | Emily rechnet so:

|  |  |  |
| --- | --- | --- |
|    5 | 10 1 |  5 |
| – 31 | 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.

|  |  |  |
| --- | --- | --- |
|  SarahIch entbündele einen Hunderter, damit ich die zwei Zehner abziehen kann. |  |  EmilyIch 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.

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| a) |

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|  | **H** | **Z** | **E** |
|  | 6 | 2 | 5 |
| – | 3 | 8 | 1 |
|  |  |  |  |

 | b) |

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| --- | --- | --- | --- |
|  | **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 |
|  |  |  |  |

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  |
| 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 23 | 104 |
| –2 | 5 | 9 |
|  3 | 7 | 5 |

□ Ich rechne wie Sarah |  | Emily rechnet so: Ich erweitere immer.Ich entbündele immer.

|  |  |  |
| --- | --- | --- |
|   6 | 10 3 |  4 |
| –21 | 51 | 9 |
|  3 | 7 | 5 |

□ Ich rechne wie Emily |

 |
| 2.4 | Überträge üben |
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| a) | Rechne die Aufgabe 924 – 659 mit deinem Rechenweg. Erkläre, wie du rechnest. |

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|  | **H** | **Z** | **E** |
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 | c) |

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|  | **H** | **Z** | **E** |
|  | 6 | 3 | 2 |
| – | 1 | 9 | 6 |
|  |  |  |  |

 | d) |

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| --- | --- | --- | --- |
|  | **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 |
|  |  |  |  |

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| 2.5 | Rechnen mit Ziffernkarten |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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. |

|  |  |
| --- | --- |
| 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 | 100 | 8 |
| –3 | 1 | 8 |
|  2 | 9 | 0 |

□ Ich rechne wie Sarah |  | Emily rechnet so:

|  |  |  |
| --- | --- | --- |
|   6 | 10 0 |  8 |
| –31 | 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?

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|

|  |  |  |  |
| --- | --- | --- | --- |
|  | 4 | 0 | 7 |
| – | 2 | 3 | 5 |
|  | 2 | 0 | 2 |

 |  |  |

  |
| 3.2 | Rechne schriftlich untereinander |
|  | Rechne aus.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| a) |

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|  | **H** | **Z** | **E** |
|  | 9 | 3 | 4 |
| – | 4 | 0 | 2 |
|  |  |  |  |

 | b) |

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| --- | --- | --- | --- |
|  | **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.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 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?

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| --- | --- | --- | --- | --- |
|  | 1 | 8 | 3 | 5 |
| – | 6 | 7 | 1 |  |
|  | 5 | 1 | 2 | 5 |

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 |
| 4.2 | Richtig untereinander rechnen |
|  | Schreibe untereinander und rechne aus.

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| a) | 857 – 83

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 | b) | 142 – 63

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 | c) | 1869 – 540

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 | c) | 1400 – 56

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 |
| 4.3 | Rechnen mit Ziffernkarten |
|  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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.

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| a) |

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|  | **T** | **H** | **Z** | **E** |
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| c) | Wie heißt das größte Ergebnis, welches erreicht werden kann?Probiere zuerst im Heft aus. Begründe. |
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|  | **T** | **H** | **Z** | **E** |
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