#

**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 vier 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, Corinna Mosandl und Marcus Nührenbörger 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** | Deutscher, Theresa, Akinwunmi, Kathrin, Selter, Christoph, Mosandl, Corinna, Nührenbörger, Marcus (2025). Mathe sicher können Diagnose- und Förderbausteine N7: Schriftlich addieren und subtrahieren. In Christoph Selter, Susanne Prediger, Marcus Nührenbörger & Stephan Hußmann (Hrsg.), Mathe sicher können. Diagnose- und Förderkonzept zur Sicherung mathematischer Basiskompetenzen (2. Auflage). Open Educational Resources unter mathe-sicher-koennen.dzlm.de/nz#n7 |
| **Hinweis zu** **verwandtem Material** | Der zu diesem Diagnose- und Fördermaterial gehörige Didaktische Kommentar ist zu finden unter mathe-sicher-koennen.dzlm.de/nz#n7 |

|  |  |
| --- | --- |
| A | Kann ich schriftlich addieren und das Rechenverfahren erklären? |
| 1 | Addition ohne Übertrag |
|  | Rechne aus.  |
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| a) |

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

 | b) |

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

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  |  |
| 2 | Addition mit Übertrag |  |
|  | Rechne aus. |  |
|  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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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. Erläutere ihre Rechenschritte.

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

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

 | Sarah hat eigentlich 13 Einer ausgerechnet. Sie schreibt aber nur die 3 zu den Einern, weil |

  |

 |  |
| 3 | Addition mit Nullen |
|  | Rechne aus. |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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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 StellenzahlSchreibe untereinander und rechne aus.  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| a) | 34 + 152

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

 | b) | 719 + 64

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
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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**. Erläutert ihre Rechnungen.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Kenan rechnet stellenweise:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 562 | + | 314 | = | 876 |
|   2 | + |   4 | = |   6 |
|  60 | + |   10 | = |  70 |
| 500 | + | 300 | = | 800 |

 | Tim rechnet schriftlich untereinander:

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

  |

 |
|  | b) | Markiert die Einer in Gelb, die Zehner in Rot und die Hunderter in Grün.Was fällt euch auf? Was ist gleich? Was ist verschieden? |
| 1.2 | Rechenwege ausprobieren |
|  | Rechne die Aufgabe **152 + 437** so wie Kenan und so wie Tim.

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 152 | + | 437 | = |  |
|  | + |  | = |  |
|  | + |  | = |  |
|  | + |  | = |  |

 |  |

|  |  |  |
| --- | --- | --- |
| H | Z | E |
|  |  |  |
|  |  |  |
|  |  |  |

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| 1.3 | Schriftlich rechnen untereinander |
|  | Rechnet 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** |
|  | 7 | 6 | 3 |
| + | 1 | 2 | 6 |
|  |  |  |  |

  |

 |
| 1.4 | Rechnen mit Ziffernkarten |
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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 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. Rechne dann aus und überprüfe. |
|  | c) | Findet die Aufgabe mit dem kleinsten Ergebnis. Wie geht ihr vor?Findet die Aufgabe mit dem größten Ergebnis. Wie geht ihr vor? |
| 2 | Addition mit Übertrag |
| 2.1 | Rechenwege vergleichen |
|  | Kenan und Tim rechnen die Aufgabe **284 + 365**.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Kenan rechnet stellenweise:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 284 | + | 365 | = | 649 |
|   4 | + |   5 | = |   9 |
|  80 | + |  60 | = | 140 |
| 200 | + | 300 | = | 500 |

Wenn ich die Aufgabe mit Würfel-material nachlege, dann bündele ich 10 Zehner zu einem Hunderter.Kenan | Bei mir ist das genauso:Ich bündele in meiner Rechnung auch 10 Zehner zu einem Hunderter. | Tim rechnet schriftlich untereinander:Tim

|  |  |  |
| --- | --- | --- |
| H | Z | E |
|  2 | 8 | 4 |
| +3 | 6 | 5 |
|  51 | 14 | 9 |
|  6 | 4 | 9 |

  |
|   |  |   |

  |
|  | a)  | Was meint Kenan? Legt die Aufgabe mit Würfelmaterial oder zeichnet ein Bild und erklärt. |
|  | b) | Was meint Tim? Erklärt an seiner Rechnung und vergleicht mit Kenans Rechnung. |
|  | c) | Dilara verwendet eine kürzere Schreibweise als Tim. Was macht sie anders? Was ist gleich? Beschreibt zuerst und notiert ihre Idee dann in der Sprechblase.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Dilara rechnet so:

|  |  |  |
| --- | --- | --- |
|  2 | 8 | 4 |
| +31 | 6 | 5 |
|  6 | 4 | 9 |

 | DilaraIch habe eigentlich 14 Zehner raus, aber  |

 |
| 2.2 | Rechenwege ausprobieren |
|  | Rechnet die Aufgabe **391 + 287** so wie Tim und so wie Dilara. Erläutert die Rechenwege.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tim rechnet so: Tim

|  |  |  |
| --- | --- | --- |
| H | Z | E |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

 |  |  Dilara rechnet so:Dilara

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

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|  |  |
| --- | --- |
| 2.3 | Rechenwege vergleichen |
|  | Kenan, Tim und Dilara rechnen die Aufgabe **489 + 257**.Beschreibt ihre Rechenwege. Was ist gleich? Was ist verschieden?

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 489 | + | 257 | = | 746 |
|   9 | + |   7 | = |  16 |
|  80 | + |  50 | = | 130 |
| 400 | + | 200 | = | 600 |

Kenan |

|  |  |  |
| --- | --- | --- |
| H | Z | E |
|   4 | 8 | 9 |
| + 2 | 5 | 7 |
|   61 | 131 | 16 |
|  7 | 4 | 6 |

Tim | Dilara

|  |  |  |
| --- | --- | --- |
|   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:  |

|  |  |  |
| --- | --- | --- |
|  H | Z | E |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

 |  | Dilara rechnet so:

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

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  |
|  | b) | Rechne die Aufgabe **298 + 493** so wie Tim und so wie Dilara.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tim rechnet so:  |

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

 | Dilara rechnet so:

|  |  |  |
| --- | --- | --- |
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|  |  |  |
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  |
| 2.5 | Rechnen mit Ziffernkarten |
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|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

Nimm die Ziffernkarten.   |
|  | a) | Lege mit den Ziffernkarten Aufgaben mit dreistelligen Zahlen. Schreibe die Rechnungen in dein Heft und löse sie. |  |
|  | b) | Lege mit den Ziffernkarten Aufgaben mit **einem** Übertrag. Schreibe die Rechnungen in dein Heft und löse sie. Erkläre. |  Beispiel:

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| + |  |  |  |
|  | 4 | 4 | 4 |

 |
|  | c) | Wie findet ihr Aufgaben mit **zwei** Überträgen? Erklärt.Legt eigene Aufgaben und schreibt die Rechnungen auf. |
|  | d) | Findet Aufgaben, bei denen das Ergebnis möglichst nah an 444 liegt.Wie geht ihr vor? |
| 3 | Addition mit Nullen |
| 3.1 | Rechenwege vergleichen |
|  | a) | Kenan und Dilara rechnen die Aufgabe **231 + 174**. Beschreibt ihre Rechenwege. Wie kommen Kenan und Dilara auf die Null im Ergebnis?

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Kenan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 231 | + | 174 | = | 405 |
|   1 | + |   4 | = |    5 |
|  30 | + |  70 | = |  100 |
| 200 | + | 100 | = | 300 |

 |

|  |  |  |
| --- | --- | --- |
|  2 | 3 | 1 |
| +11 | 7 | 4 |
|  4 | 0 | 5 |

 Dilara |

 |
|  |  |  |
|  | b) |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Welchen Fehler macht Tara?Tara |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 3 | 0 | 5 |
| + | 5 | 3 | 4 |
|  | 8 | 0 | 9 |

 |  |

 |
| 3.2 | Schriftlich untereinander rechnen |
|  | Rechne die Aufgaben so wie Dilara.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| a) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 4 | 3 | 1 |
| + | 5 | 0 | 6 |
|  |  |  |  |

 | b) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 4 | 0 | 1 |
| + | 5 | 3 | 6 |
|  |  |  |  |

 | c) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2 | 7 | 0 |
| + | 1 | 6 | 0 |
|  |  |  |  |

 | d) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 4 | 8 | 3 |
| + | 1 | 2 | 6 |
|  |  |  |  |

  |

Schreibe die fehlenden Ziffern in die grauen Kästchen.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| e) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 7 | 4 |  |
| + | 1 | 5 | 3 |
|  | 8 | 9 | 3 |

 | f) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 6 | 0 | 7 |
| + | 3 | 2 |  |
|  | 9 |  | 7 |

 | g) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 2 | 7 | 0 |
| + | 2 |  | 0 |
|  |  | 0 |  |

 | h) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 5 | 3 | 4 |
| + | 1 | 0 |  |
|  | 6 |  | 4 |

 |

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| --- | --- |
| 3.3 | Rechnen mit Ziffernkarten |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 0 | 0 | 2 | 3 | 4 | 6 |

Nimm 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) | Findet die Aufgabe mit dem kleinsten Ergebnis. Wie geht ihr vor?Findet die Aufgabe mit dem größten Ergebnis. Wie geht ihr vor? |
| 4 | Addition mit unterschiedlicher Stellenzahl |
| 4.1 | Fehler erklären |
|  | Jonas rechnet **462 + 1237**. Welchen Fehler macht Jonas? Worauf sollte er achten?

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

 | Jonas |  |

 |
| 4.2 | Aufpassen auf die Stellenwerte |
|  | Schreibe richtig untereinander und rechne aus. Worauf musst du achten?

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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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 die Ziffernkarten. Du darfst Ziffernkarten auch mehrmals verwenden.Erfinde Additions-Aufgaben. Alle grauen Kästchen müssen belegt werden.Lege zuerst mit Ziffernkarten. Schreibe dann auf und rechne aus.

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **T** | **H** | **Z** | **E** |
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| + |  |  |  |  |
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| --- | --- | --- | --- | --- |
|  | **T** | **H** | **Z** | **E** |
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| + |  |  |  |  |
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| --- | --- | --- | --- | --- |
|  | **T** | **H** | **Z** | **E** |
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| + |  |  |  |  |
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| --- | --- | --- | --- | --- |
|  | **T** | **H** | **Z** | **E** |
|  |  |  |  |  |
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 |
| b) |

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| --- | --- | --- | --- | --- |
|  | **T** | **H** | **Z** | **E** |
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|  | **T** | **H** | **Z** | **E** |
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| --- | --- | --- | --- | --- |
|  | **T** | **H** | **Z** | **E** |
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| --- | --- | --- | --- | --- |
|  | **T** | **H** | **Z** | **E** |
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| --- | --- |
| c) | Finde das größte Ergebnis, wenn jede Ziffer nur einmal genutzt werden darf. Probiere mit den Ziffernkarten. Begründe. |
|

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|  | **T** | **H** | **Z** | **E** |
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| --- | --- |
| B | Kann ich schriftlich subtrahieren und das Rechenverfahren erklären? |
| 1 | Subtraktion ohne ‚Übertrag‘Rechne aus.  |
|  |

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | 8 | 9 | 6 |
| – | 1 | 2 | 3 |
|  |  |  |  |

 | c) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 7 | 9 | 8 |
| – | 6 | 5 | 4 |
|  |  |  |  |

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  |  |
| 2 | Subtraktion mit ‚Übertrag‘Rechne aus.  |  |
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| a) |

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

 | b) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 8 | 4 | 5 |
| – | 3 | 4 | 7 |
|  |  |  |  |

 | c) |

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

 |  |  |

 |  |
| 3 | Subtraktion mit NullenRechne aus.  |
|  |

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

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

 | b) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 6 | 8 | 7 |
| – | 2 | 8 | 0 |
|  |  |  |  |

 | c) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 7 | 0 | 5 |
| – | 4 | 6 | 3 |
|  |  |  |  |

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 |  |
| 4 | Subtraktion mit unterschiedlicher StellenanzahlSchreibe untereinander und rechne aus. |
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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 Tim rechnen die Aufgabe **683 – 251**. Beschreibt ihre Rechenwege.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Kenan rechnet stellenweise:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 683 | – | 251 | = | 432 |
|   3 | – |   1 | = |   2 |
|  80 | – |  50 | = |  30 |
| 600 | – | 200 | = | 400 |

Kenan |  | Tim rechnet untereinander: Tim

|  |  |  |
| --- | --- | --- |
| **H** | **Z** | **E** |
|   6 | 8 | 3 |
| – 2 | 5 | 1 |
|   4 | 3 | 2 |

  |

 |
|  | b) | Markiert die Einer in Gelb, die Zehner in Rot und die Hunderter in Grün.Was fällt euch auf? Was ist gleich? Was ist verschieden? |
| 1.2 | Rechenwege ausprobieren |
|  | Rechne die Aufgabe **865 – 432** so wie Kenan und so wie Tim.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Kenan rechnet so:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 865 | – | 432 | = |  |
|  | – |  | = |  |
|  | – |  | = |  |
|  | – |  | = |  |

 | Tim rechnet so:

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| --- | --- | --- |
| **H** | **Z** | **E** |
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 |
| 1.3 | Untereinander schriftlich rechnen |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 |
|  |  |  |  |

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 |
| 1.4 | Rechnen mit Ziffernkarten |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 | 6 |

Nimm die Ziffernkarten.   |
|  | a) | Lege mit den Ziffernkarten immer eine dreistellige Zahl und subtrahiere sie von 789. Schreibe die Rechnungen in dein Heft.  |

|  |  |  |
| --- | --- | --- |
| 2 | 6 | 4 |

Beispiel: | Rechnung:

|  |  |  |  |
| --- | --- | --- | --- |
|  | 7 | 8 | 9 |
| – | 2 | 6 | 4 |
|  | 5 | 3 | 4 |

 |
|  | b) | Lege die Aufgabe 789 – 264 mit Ziffernkarten. Vertausche immer zwei Ziffernkarten. Überlege zuerst, ob das Ergebnis kleiner oder größer wird. Rechne dann aus und überprüfe.  |
|  | c) | Findet die Aufgabe mit dem kleinsten Ergebnis. Wie geht ihr vor?Findet die Aufgabe mit dem größten Ergebnis. Wie geht ihr vor? |
| 2Sarah | Subtraktion mit ‚Übertrag‘ |
| 2.1 | Rechnungen erklären mit Entbündeln oder Erweitern |
|  | a) | Sarah und Emily rechnen die Aufgabe **515 – 324**.Wie rechnest du? Kreuze an.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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) | Legt die Aufgabe mit Würfelmaterial nach und erklärt euch gegenseitig eure Rechenwege.Die Tipps können helfen.

|  |  |  |
| --- | --- | --- |
| Ich entbündele einen Hunderter, damit ich die zwei Zehner abziehen kann.Sarah  | Ich erweitere um zehn Zehner, dafür nehme einen weiteren Hunderter weg.  |  Emily |

 |
|  |  |  |
|  | c)… weil ich die zehn Zehner, die ich dazu tue, wieder abziehe.□□ | Bei schriftlichen Rechnungen verändert man die Ziffern. Warum bekommt man dabei das gleiche Ergebnis? Kreuzt die richtigen Antworten an. Erklärt dann in 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 |
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 | b) |

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|  | **H** | **Z** | **E** |
|  | 7 | 5 | 8 |
| – | 2 | 9 | 3 |
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 | c) |

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|  | **H** | **Z** | **E** |
|  | 9 | 5 | 4 |
| – | 3 | 2 | 6 |
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|  | **H** | **Z** | **E** |
|  | 5 | 6 | 3 |
| – | 2 | 6 | 7 |
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| 2.3 | Rechnungen mit ‚Überträgen‘ erklären  |
|  | Sarah und Emily rechnen die Aufgabe **634 – 259**.Wie rechnet ihr? Kreuzt an und beschreibt ihre Rechnungen.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Sarah rechnet so:SarahIch entbündele.

|  |  |  |
| --- | --- | --- |
| 5 6 | 10 23 | 104 |
| –2 | 5 | 9 |
|  3 | 7 | 5 |

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

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

□ Ich rechne wie Emily. |

 |
| 2.4 | ‚Überträge‘ übenRechnet die Aufgaben wie Sarah oder wie Emily. Erklärt, wie ihr rechnet. |
|  |

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

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|  | **H** | **Z** | **E** |
|  |  | 8 | 4 |
| – |  | 5 | 9 |
|  |  |  |  |

b) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **H** | **Z** | **E** |
|  | 9 | 2 | 4 |
| – | 6 | 5 | 9 |
|  |  |  |  |

 | c) |

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

 | d) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **H** | **Z** | **E** |
|  | 8 | 7 | 1 |
| – | 3 | 7 | 3 |
|  |  |  |  |

  |
| e) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 7 | 1 | 2 |
| – | 4 | 2 | 3 |
|  |  |  |  |

 | f) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 5 | 1 | 1 |
| – | 4 | 5 | 9 |
|  |  |  |  |

 | g) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 8 | 6 | 8 |
| – | 2 | 7 | 9 |
|  |  |  |  |

 | h) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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 die Ziffernkarten. Lege mit den Ziffernkarten immer zwei dreistellige Zahlen und subtrahiere die kleinere von der größeren Zahl. |
|  | a) | Findet Aufgaben, bei denen das Ergebnis möglichst nah an 399 liegt.Schreibt die Rechnungen ins Heft. Wie geht ihr vor? | Beispiel:

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| – |  |  |  |
|  | 3 | 9 | 9 |

 |
|  | b) | Findet Aufgaben, bei denen das Ergebnis möglichst nah an 100 liegt.Schreibt die Rechnungen ins Heft. Wie geht ihr vor? |
|  | c) | Suche dir weitere Ergebniszahlen aus und versuche, passende Aufgaben zu finden. Schreibe die Aufgaben ins Heft. |

|  |  |
| --- | --- |
| 3 | Subtraktion mit Nullen |
| 3.1 | Rechnungen erklären |
|  | a) | Sarah und Emily rechnen die Aufgabe **608 – 318**.Wie rechnet ihr? Kreuzt an und beschreibt euren Rechenweg.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sarah rechnet so:Sarah

|  |  |  |
| --- | --- | --- |
| 5 6 | 100 | 8 |
| –3 | 1 | 8 |
|  2 | 9 | 0 |

□ Ich rechne wie Sarah.  |  | Emily rechnet so:Emily

|  |  |  |
| --- | --- | --- |
|    6 |  10 0 |  8 |
| – 31 | 1 | 8 |
|  2 | 9 | 0 |

□ Ich rechne wie Emily.  |

 |
|  | b) | Kenan rechnet die Aufgabe 407 – 235. Welchen Fehler macht Kenan? Warum ist das falsch?

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

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

 | Kenan |  |

  |
| 3.2 | Schriftlich untereinander rechnen |
|  | Rechne aus.

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

|  |  |  |  |
| --- | --- | --- | --- |
|  | 9 | 3 | 4 |
| – | 4 | 0 | 2 |
|  |  |  |  |

 | b) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 9 | 0 | 4 |
| – | 4 | 3 | 2 |
|  |  |  |  |

 | c) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 5 | 0 | 3 |
| – | 3 | 0 | 4 |
|  |  |  |  |

 | d) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 5 | 0 | 4 |
| – | 3 | 0 | 3 |
|  |  |  |  |

  |

Schreibe die fehlenden Ziffern in die grauen Kästchen.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| e) |

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| --- | --- | --- | --- |
|  | 8 |  | 3 |
| – | 2 | 0 | 3 |
|  |  | 2 |  |

 | f) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 3 |  | 5 |
| – | 1 |  | 2 |
|  | 2 | 0 |  |

 | g) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 7 | 0 | 6 |
| – | 5 |  | 0 |
|  |  | 6 |  |

 | h) |

|  |  |  |  |
| --- | --- | --- | --- |
|  | 6 | 0 |  |
| – | 2 | 4 | 5 |
|  | 3 |  | 5 |

 |

 |
| 3.3 | Rechnen mit Ziffernkarten |
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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 0 | 1 | 2 | 3 | 4 | 5 |

Nimm 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 die kleinere von der größeren Zahl. Schreibe die Rechnungen ins Heft. |
|  | b) | Findet die Aufgabe mit dem kleinsten Ergebnis. Wie geht ihr vor?Findet die Aufgabe mit dem größten Ergebnis. Wie geht ihr vor? |
| 4 | Subtraktion mit unterschiedlicher Stellenanzahl |
| 4.1 | Fehler erklären |
|  | Jonas rechnet die Aufgabe **1835 – 671**. Dabei macht er einen Fehler.Welchen Fehler macht Jonas? Worauf sollte er achten?

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

 | Jonas |  |

 |
| 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 die Ziffernkarten. Du darfst sie auch mehrmals verwenden.Erfinde Subtraktions-Aufgaben. 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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| c) | Finde das größte Ergebnis. Probiere mit den Ziffernkarten. Begründe. |
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|  | **T** | **H** | **Z** | **E** |
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