#

**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:Kenan

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

 | Tim rechnet schriftlich untereinander:Tim

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

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 |
| 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. 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

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

 |

 |
| 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:  |

|  |  |  |
| --- | --- | --- |
|   |  |  |
|  |  |  |
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|  |  |  |
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 | 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 |
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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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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| --- | --- | --- | --- | --- |
|  | **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 ÜbertragRechne aus.  |
|  |

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

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

 | c) |

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

 |

  |  |
| 2 | Subtraktion mit ÜbertragRechne 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.Emily

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

 |
|  |  |  |
|  | 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. … weil der Unterschied zwischen beiden Zahlen gleich bleibt.□Tara… weil man die Ziffern so verändern darf, wie man will.Rico

|  |  |  |
| --- | --- | --- |
| Leonie |  | □… weil zehn Zehner ein Hunderter sind.Tim |
|  |  |  |

 |
| 2.2 | Übertrag üben |
|  | Rechne aus.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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: EmilyIch erweitere.

|  |  |  |
| --- | --- | --- |
|   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 |
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b) |

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|  | **H** | **Z** | **E** |
|  | 9 | 2 | 4 |
| – | 6 | 5 | 9 |
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 | c) |

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

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| --- | --- | --- | --- |
|  | **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?

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