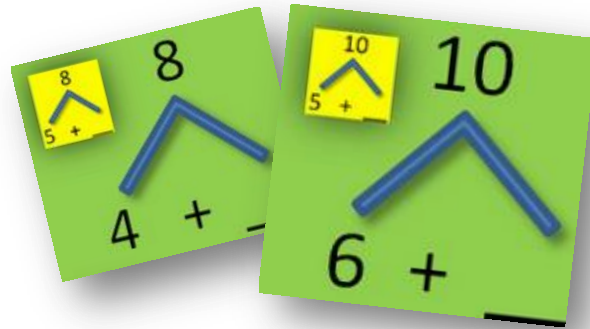




Stufe 2



Aufgaben:	bekante Nachbarzerlegung
$6 = 6 + \underline{\quad}$ $6 = 4 + \underline{\quad}$	$6 = 5 + 1$
$7 = 6 + \underline{\quad}$ $7 = 4 + \underline{\quad}$	$7 = 5 + 2$
$8 = 6 + \underline{\quad}$ $8 = 4 + \underline{\quad}$	$8 = 5 + 3$
$9 = 6 + \underline{\quad}$ $9 = 4 + \underline{\quad}$	$9 = 5 + 4$
$10 = 6 + \underline{\quad}$ $10 = 4 + \underline{\quad}$	$10 = 5 + 5$

Nach der Erarbeitung sollen gewisse Zahlenfakten jederzeit ohne grossen Aufwand aus dem Gedächtnis abrufbar sein.

Wer den Zahlenraum bis zehn nicht automatisiert hat, wird sich bei allem Weiteren sehr schwertun.

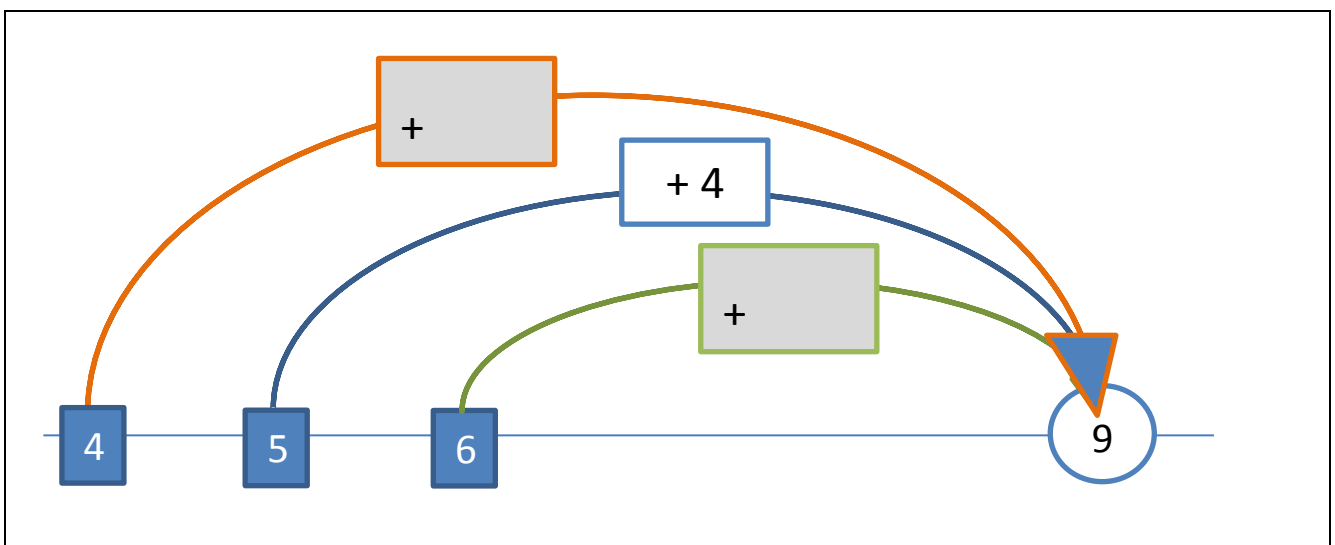
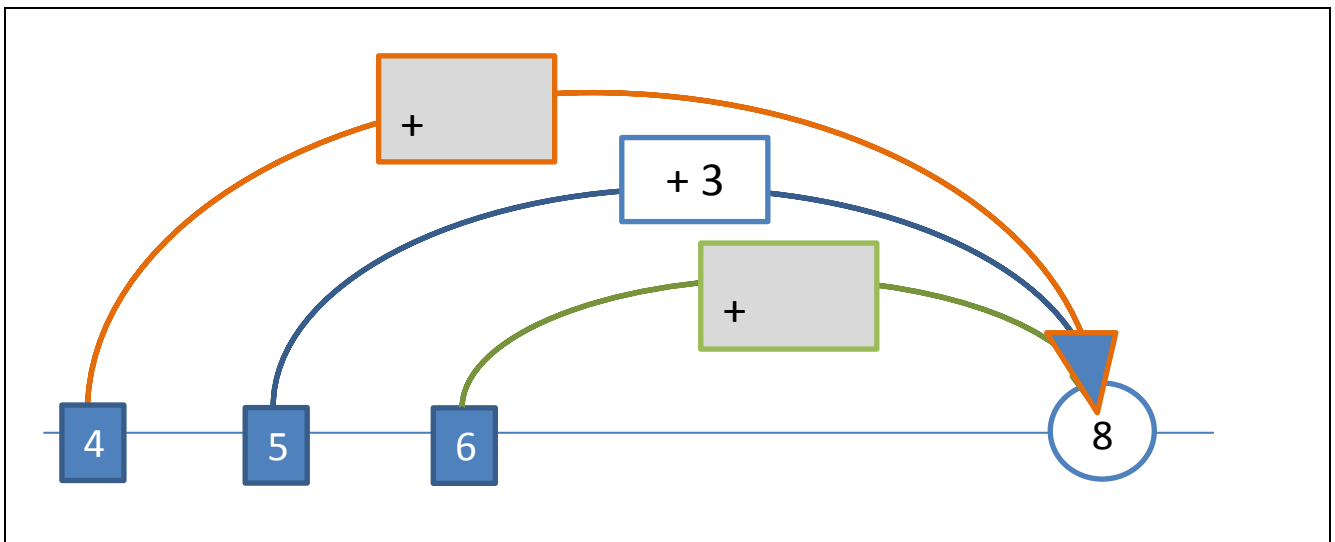
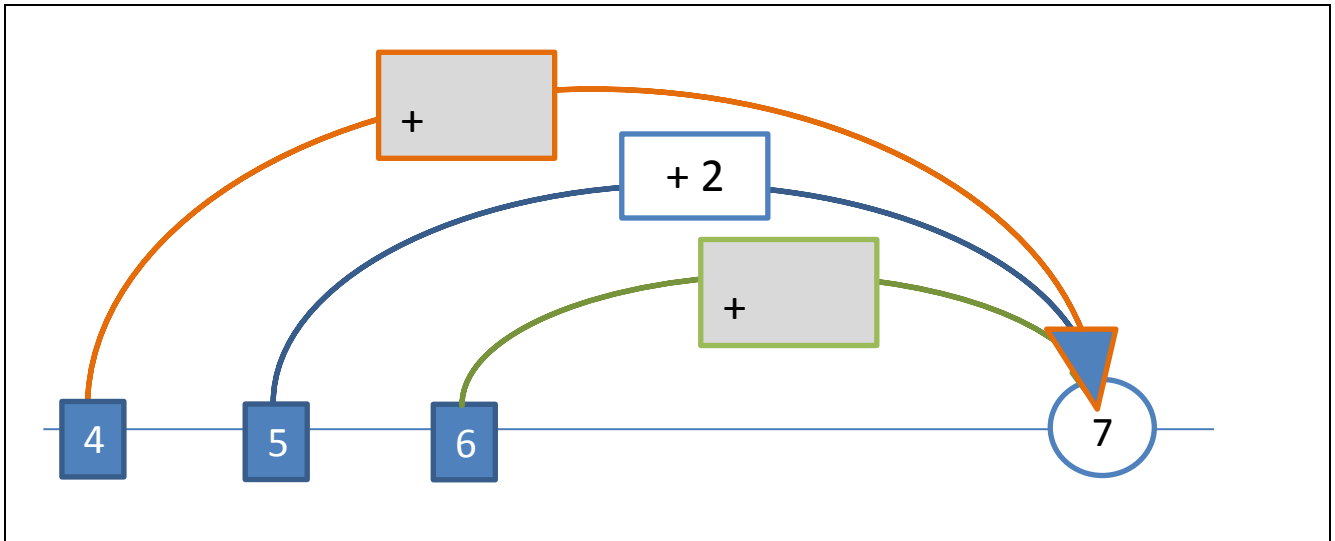
Neben den Arbeitsblättern empfiehlt sich das Training ...

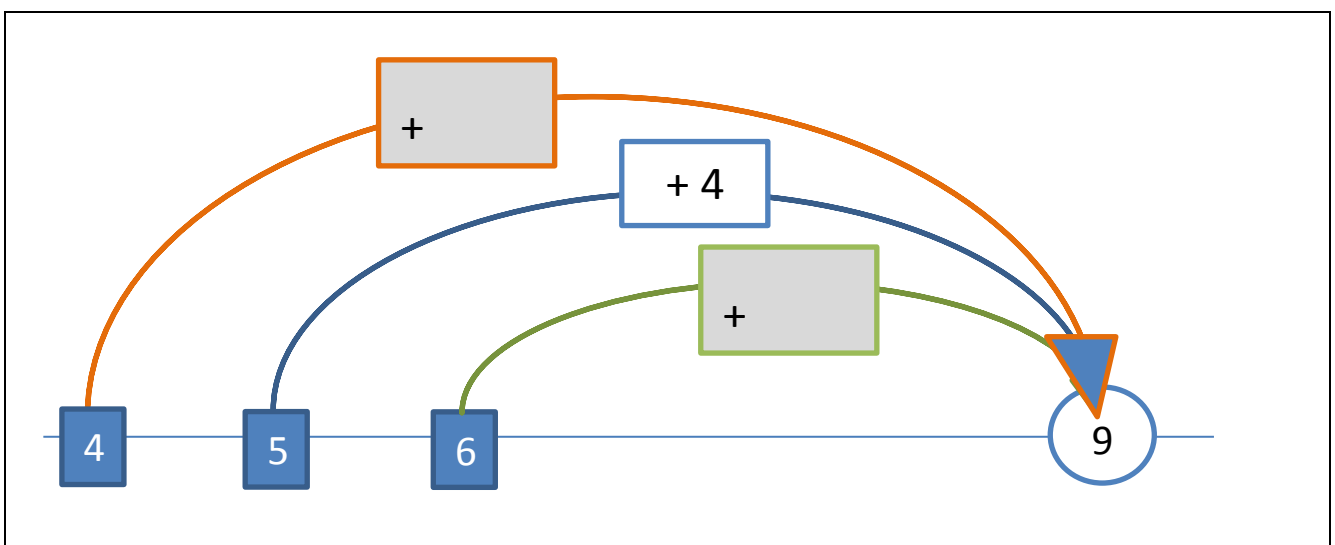
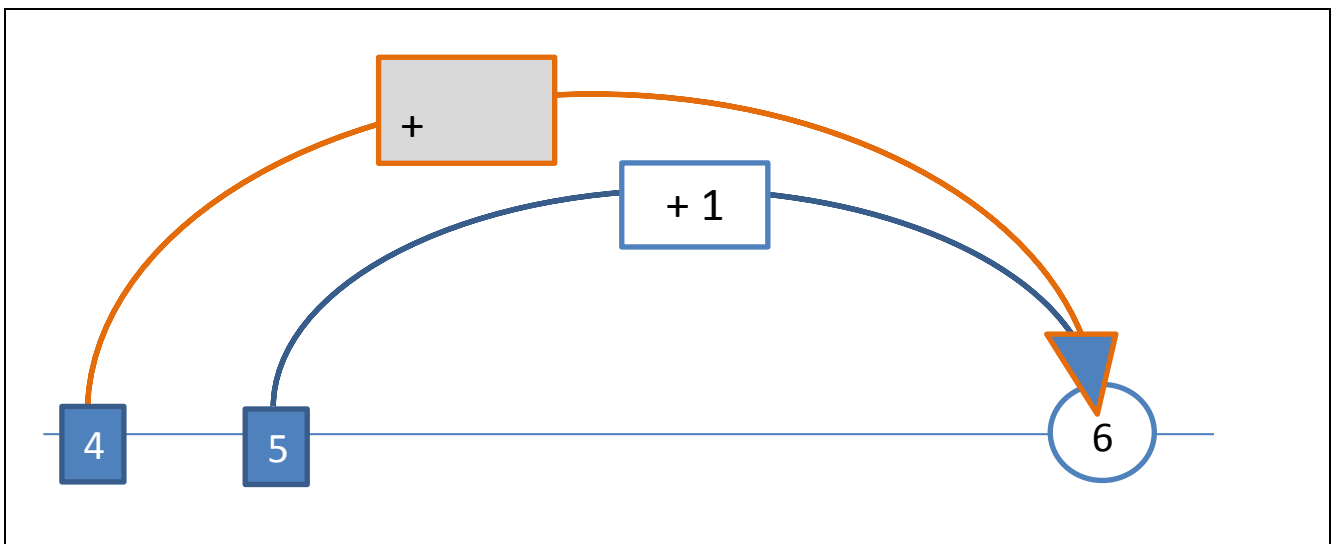
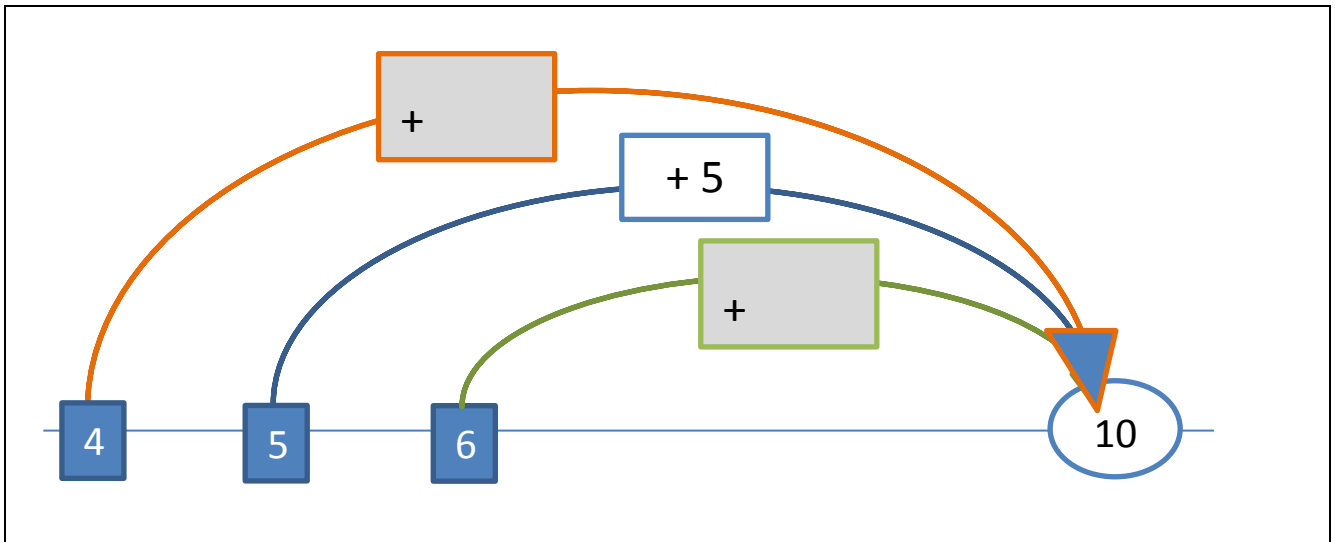
- ... mit den Karteikarten
- ... Online-Übungen auf www.iLern.ch > Mathe > 1. Klasse > Alle Zahlen bis 10 schrittweise automatisiert zerlegen

Legematerial und das Zeigen mit den Fingern sollte mit der Zeit weggelassen werden können.



Auf dem Zahlenstrich







Nachbarzerlegungen 1

$5 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 7$	$4 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 7$
	$6 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 7$

$5 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 9$	$4 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 9$
	$6 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 9$

$5 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 8$	$4 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 8$
	$6 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 8$



Nachbarzerlegungen

$5 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 10$	$4 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 10$
$6 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 10$	

$5 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 6$	$4 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 6$
$6 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 6$	

$5 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 8$	$4 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 8$
$6 + \begin{array}{ c } \hline \\ \hline \\ \hline \end{array} = 8$	



Mit Punkten

<p>●●●●● ○○</p> <p>5 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 7</p>	<p>●●●●○ ○○</p> <p>4 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 7</p>	<p>●●●●● ●○</p> <p>6 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 7</p>
---	---	---

<p>●●●●● ○○○</p> <p>5 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 8</p>	<p>●●●●○ ○○○</p> <p>4 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 8</p>	<p>●●●●● ●○○</p> <p>6 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 8</p>
--	--	--

<p>●●●●● ○○○○</p> <p>5 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 9</p>	<p>●●●●○ ○○○○</p> <p>4 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 9</p>	<p>●●●●● ●○○○</p> <p>6 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 9</p>
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<p>●●●●● ○○○○○</p> <p>5 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 10</p>	<p>●●●●○ ○○○○○</p> <p>4 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 10</p>	<p>●●●●● ●○○○○</p> <p>6 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 10</p>
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<p>●●●●● ○</p> <p>5 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 6</p>	<p>●●●●○ ○</p> <p>4 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 6</p>	<p>●●●●● ●</p> <p>6 + <input style="width: 40px; height: 40px; border: 1px solid black; border-bottom: none; margin: 5px 0;" type="text"/> = 6</p>
--	--	--




Würfelbilder

Zeichne die fehlenden Punkte und setze die richtigen Zahlen ein.


7

						
<table border="1" style="width: 100%; height: 40px;"> <tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr> </table>			+	<table border="1" style="width: 100%; height: 40px;"> <tr><td style="width: 50%;"></td><td style="width: 50%;"></td></tr> </table>		


7

						
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7

						
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8

						
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8

						
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9

<input type="text"/>	<input type="text"/>
	+
<input type="text"/>	<input type="text"/>

9

<input type="text"/>	<input type="text"/>
	+
<input type="text"/>	<input type="text"/>

9

<input type="text"/>	<input type="text"/>
	+
<input type="text"/>	<input type="text"/>

10

<input type="text"/>	<input type="text"/>
	+
<input type="text"/>	<input type="text"/>

10

<input type="text"/>	<input type="text"/>
	+
<input type="text"/>	<input type="text"/>

10

<input type="text"/>	<input type="text"/>
	+
<input type="text"/>	<input type="text"/>



Ergänzen von 4 und 6 aus – mit Nachbar – der Reihe nach

 $5 + \underline{\quad}$	 $4 + \underline{\quad}$	 $6 + \underline{\quad}$
-----------------------------	-----------------------------	-----------------------------

 $5 + \underline{\quad}$	 $4 + \underline{\quad}$	 $6 + \underline{\quad}$
-----------------------------	-----------------------------	-----------------------------

 $5 + \underline{\quad}$	 $4 + \underline{\quad}$	 $6 + \underline{\quad}$
-----------------------------	-----------------------------	-----------------------------

 $5 + \underline{\quad}$	 $4 + \underline{\quad}$	 $6 + \underline{\quad}$
-----------------------------	-----------------------------	-----------------------------

 $5 + \underline{\quad}$	 $4 + \underline{\quad}$	 $6 + \underline{\quad}$
-----------------------------	-----------------------------	-----------------------------



Ergänzen von 4 und 6 aus – mit Nachbar – gemischt

7 5 + _____	7 4 + _____	7 6 + _____
---------------------------	---------------------------	---------------------------

10 5 + _____	10 4 + _____	10 6 + _____
----------------------------	----------------------------	----------------------------

9 5 + _____	9 4 + _____	9 6 + _____
---------------------------	---------------------------	---------------------------

8 5 + _____	8 4 + _____	8 6 + _____
---------------------------	---------------------------	---------------------------

6 5 + _____	6 4 + _____	6 6 + _____
---------------------------	---------------------------	---------------------------



Ergänzen von 4 und 6 aus – ohne Nachbar

7 	8 	9
4 + _____	4 + _____	6 + _____

10 	6 	8
6 + _____	4 + _____	6 + _____

9 	10 	7
6 + _____	4 + _____	6 + _____

8 	7 	10
4 + _____	4 + _____	6 + _____

9 	6 	6
6 + _____	4 + _____	6 + _____



Plus 1

mit der mittleren Rechnung beginnen - danach die daneben stehenden Nachbaraufgaben

$4 + 2 =$	$5 + 2 =$	$6 + 2 =$
$4 + 4 =$	$5 + 4 =$	$6 + 4 =$
$4 + 1 =$	$5 + 1 =$	$6 + 1 =$
$4 + 3 =$	$5 + 3 =$	$6 + 3 =$
$4 + 5 =$	$5 + 5 =$	$6 + 5 =$
$4 + 0 =$	$5 + 0 =$	$6 + 0 =$

gemischt

$4 + 2 =$	$5 + 3 =$	$4 + 5 =$
$6 + 0 =$	$4 + 2 =$	$6 + 4 =$



Plus 2

mit der mittleren Rechnung beginnen - danach die daneben stehenden Nachbaraufgaben

$4 + 1 =$ <input type="text"/>	$5 + 1 =$ <input type="text"/>	$6 + 1 =$ <input type="text"/>
$4 + 5 =$ <input type="text"/>	$5 + 5 =$ <input type="text"/>	$6 + 5 =$ <input type="text"/>
$4 + 0 =$ <input type="text"/>	$5 + 0 =$ <input type="text"/>	$6 + 0 =$ <input type="text"/>
$4 + 2 =$ <input type="text"/>	$5 + 2 =$ <input type="text"/>	$6 + 2 =$ <input type="text"/>
$4 + 4 =$ <input type="text"/>	$5 + 4 =$ <input type="text"/>	$6 + 4 =$ <input type="text"/>
$4 + 3 =$ <input type="text"/>	$5 + 3 =$ <input type="text"/>	$6 + 3 =$ <input type="text"/>

gemischt

$4 + 3 =$ <input type="text"/>	$5 + 4 =$ <input type="text"/>	$4 + 5 =$ <input type="text"/>
$6 + 2 =$ <input type="text"/>	$4 + 4 =$ <input type="text"/>	$6 + 3 =$ <input type="text"/>



Ergänzen 1

mit der mittleren Rechnung beginnen - danach die daneben stehenden Nachbaraufgaben

$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$
$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 7$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 7$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 7$
$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 10$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 10$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 10$
$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 8$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 8$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 8$
$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 9$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 9$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 9$

gemischt

$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 10$	$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 8$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 7$
$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 9$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$	$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$
$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 8$	$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 9$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$



Ergänzen 2

mit der mittleren Rechnung beginnen - danach die daneben stehenden Nachbaraufgaben

$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 10$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 10$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 10$
$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 8$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 8$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 8$
$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 7$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 7$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 7$
$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$
$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 9$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 9$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 9$

gemischt

$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 10$	$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 8$	$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 7$
$5 + \begin{array}{ c } \hline \\ \hline \end{array} = 9$	$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$	$6 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$
$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 7$	$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 9$	$4 + \begin{array}{ c } \hline \\ \hline \end{array} = 6$



Operative Strukturen 1

4	+	1	=	<input type="text"/>
4	+	2	=	<input type="text"/>
4	+	3	=	<input type="text"/>
4	+	<input type="text"/>	=	<input type="text"/>

5	+	1	=	<input type="text"/>
5	+	2	=	<input type="text"/>
5	+	3	=	<input type="text"/>
5	+	<input type="text"/>	=	<input type="text"/>

6	+	1	=	<input type="text"/>
6	+	2	=	<input type="text"/>
6	+	3	=	<input type="text"/>
6	+	<input type="text"/>	=	<input type="text"/>

4	+	4	=	<input type="text"/>
4	+	3	=	<input type="text"/>
4	+	2	=	<input type="text"/>
4	+	<input type="text"/>	=	<input type="text"/>



Operative Strukturen 2

4 +

 = 5

4 +

 = 6

4 +

 = 7

4 +

 =

5 +

 = 6

5 +

 = 7

5 +

 = 8

5 +

 =

6 +

 = 7

6 +

 = 8

6 +

 = 9

6 +

 =

5 +

 = 10

5 +

 = 9

5 +

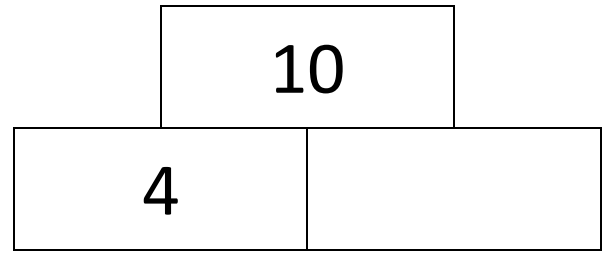
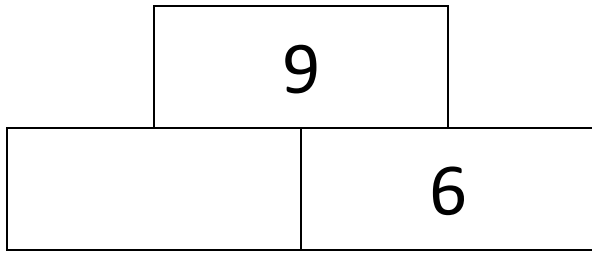
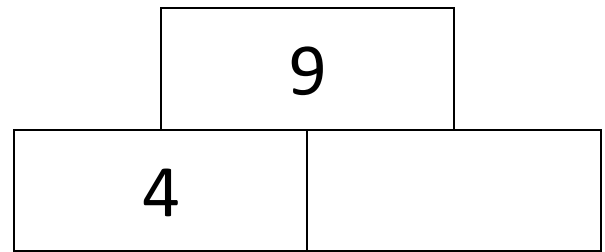
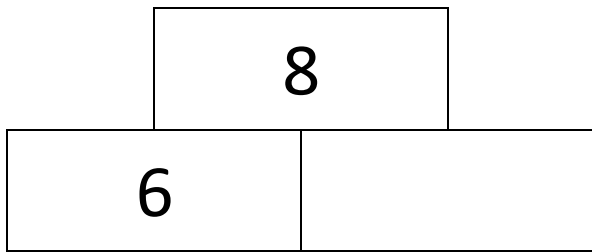
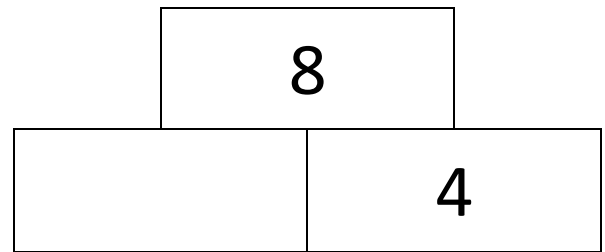
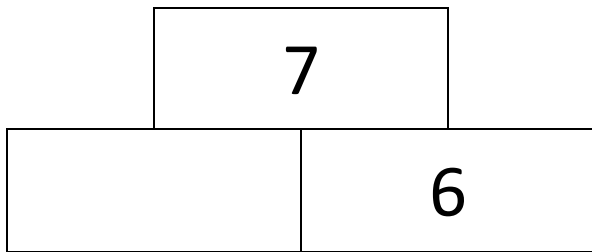
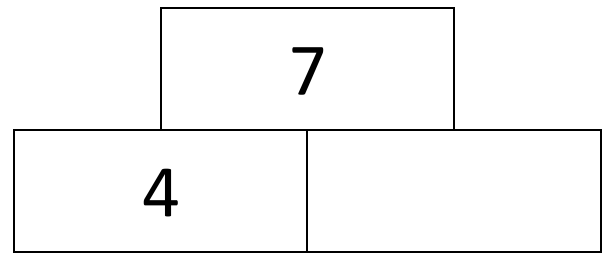
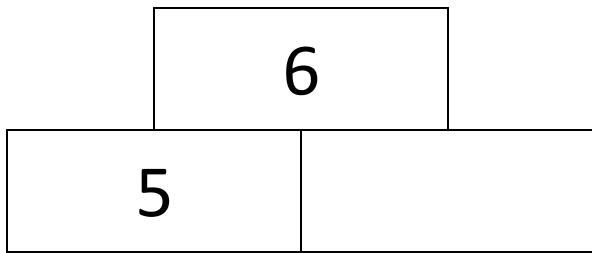
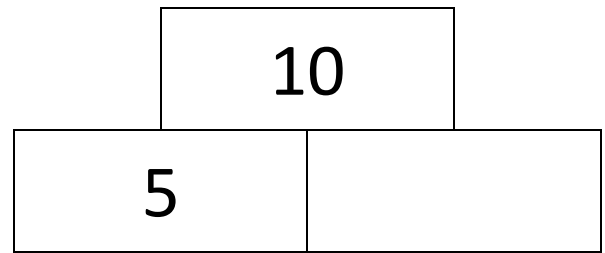
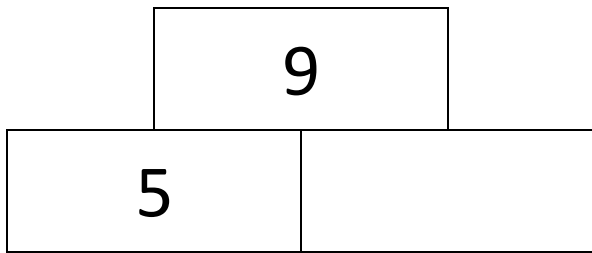
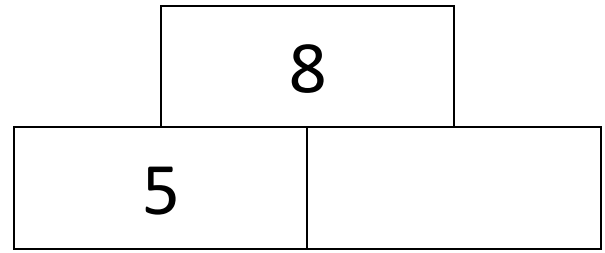
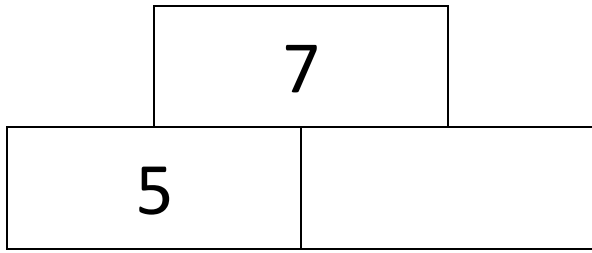
 = 8

5 +

 =

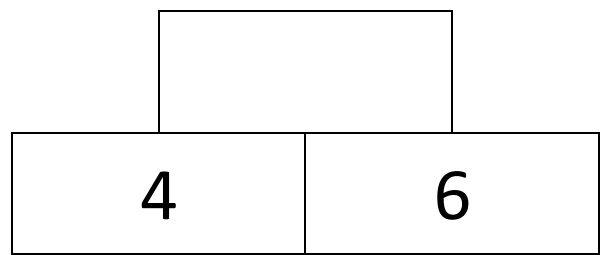
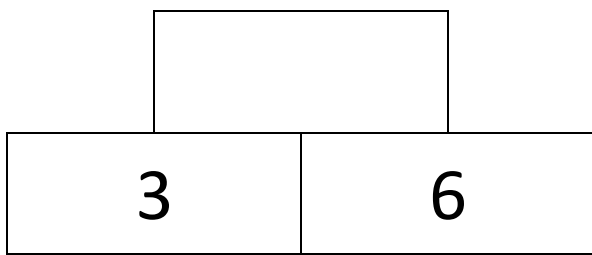
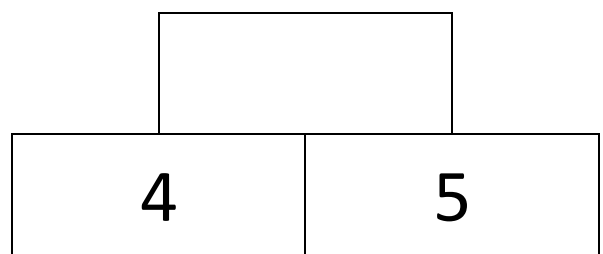
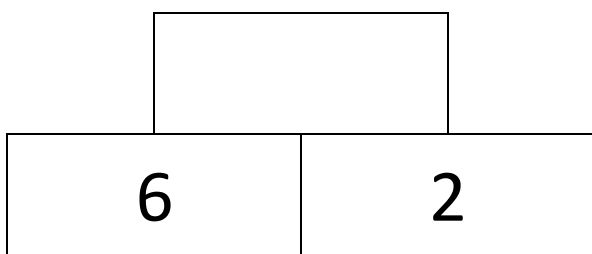
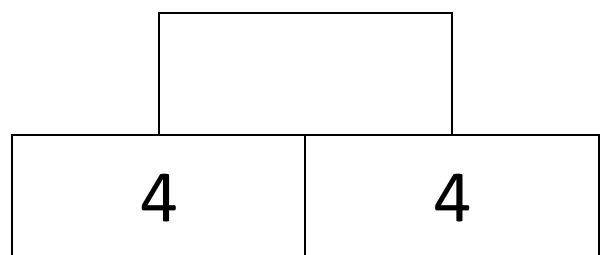
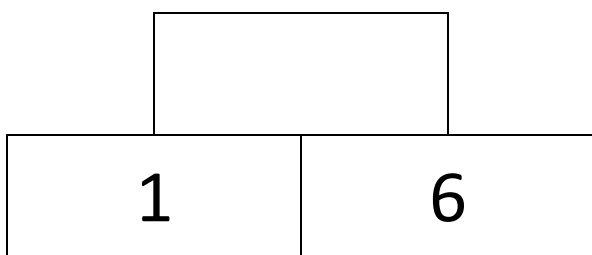
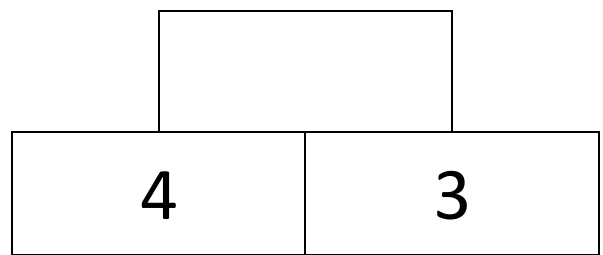
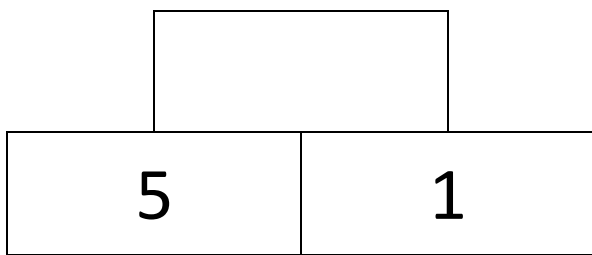
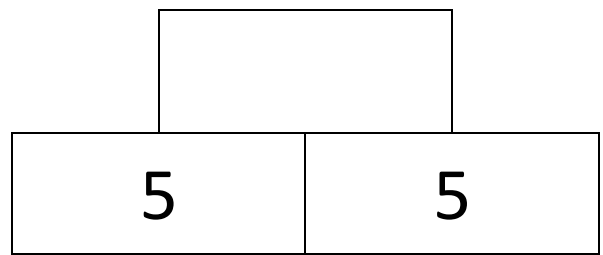
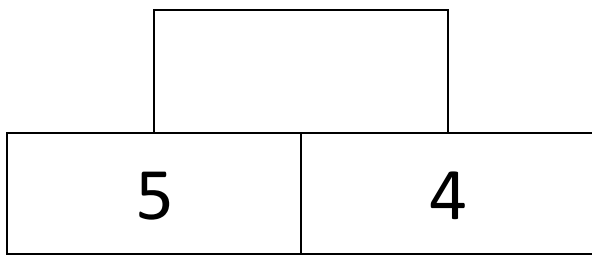
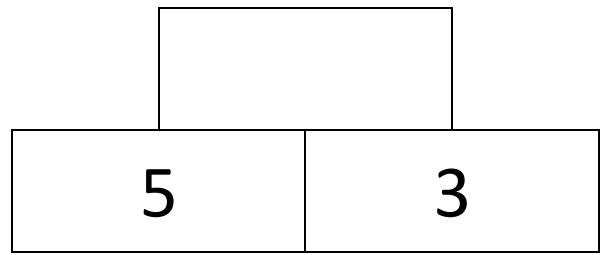
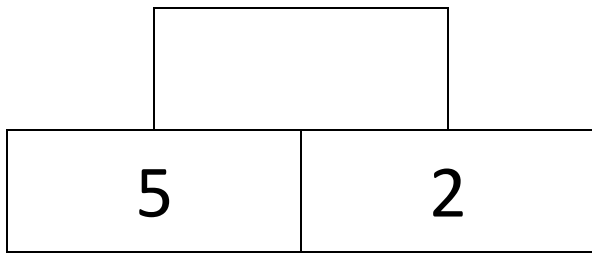


Zahlenhäuser 1



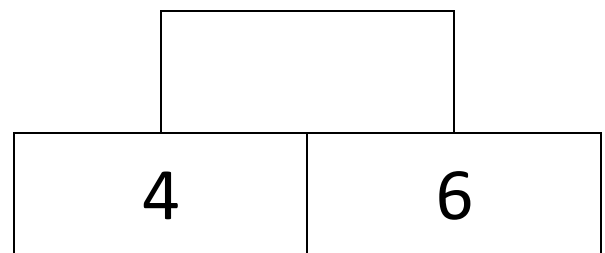
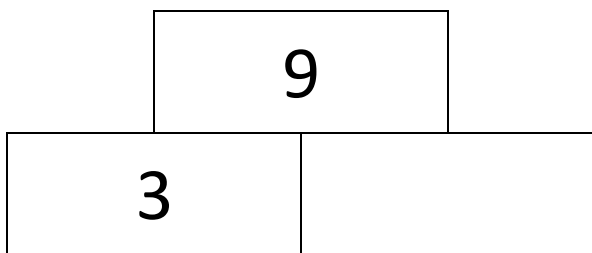
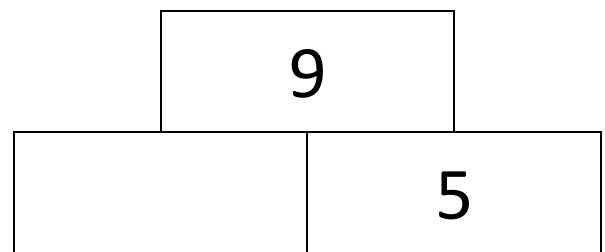
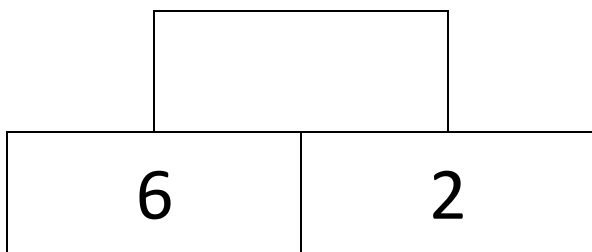
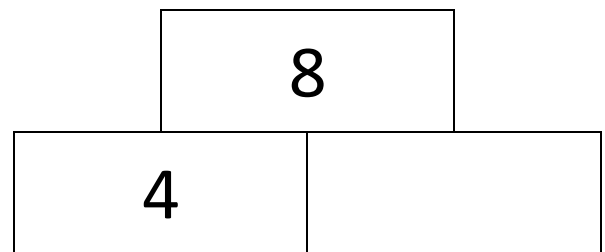
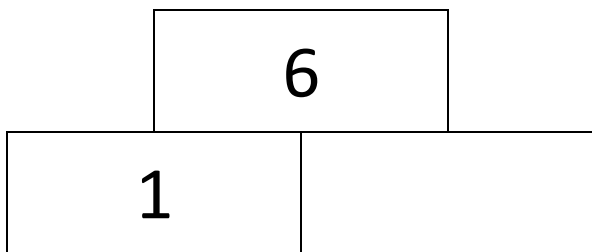
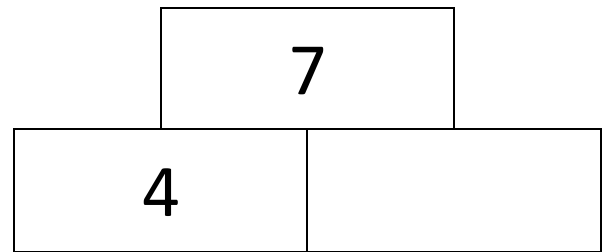
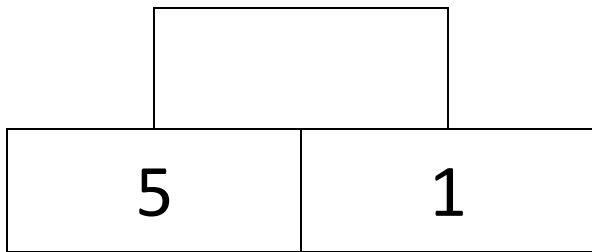
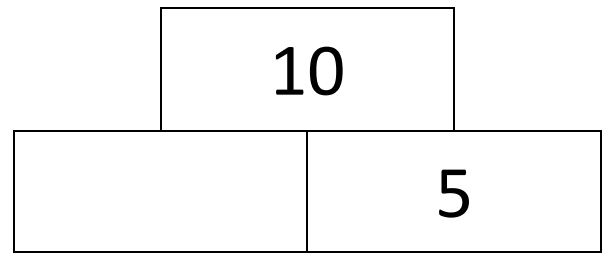
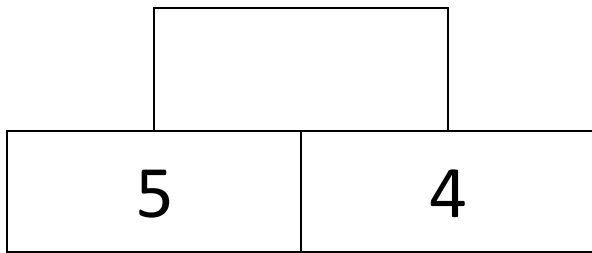
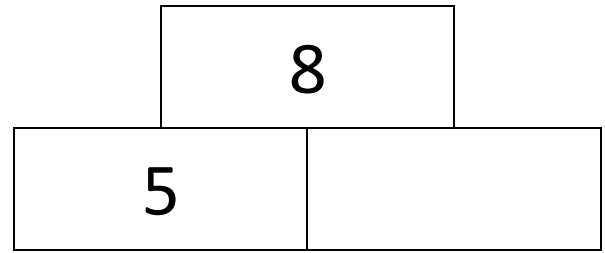
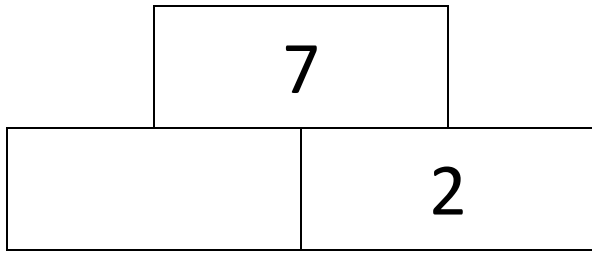


Zahlenhäuser 2



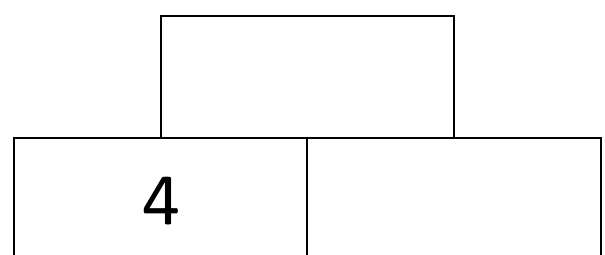
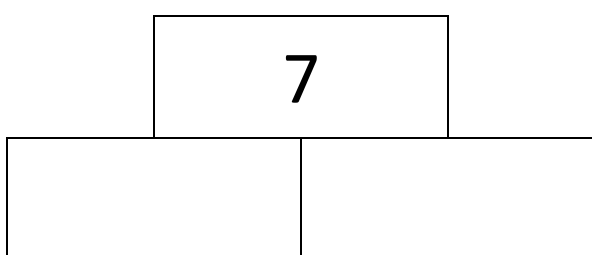
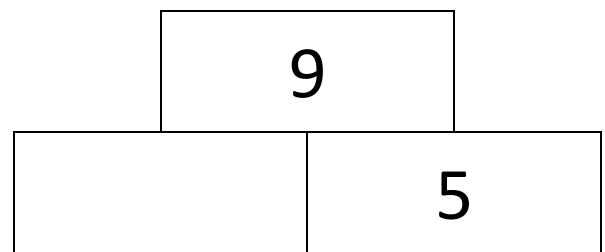
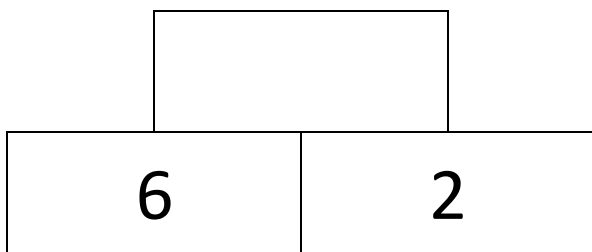
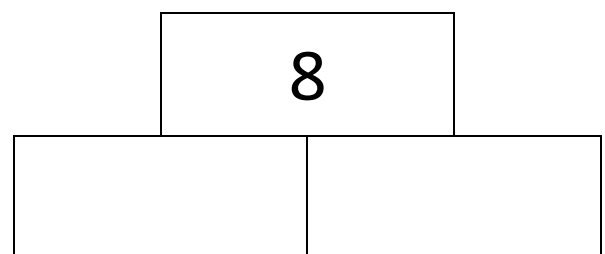
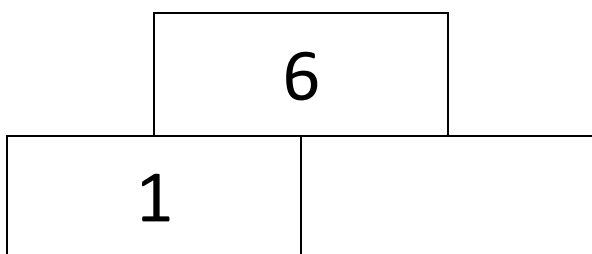
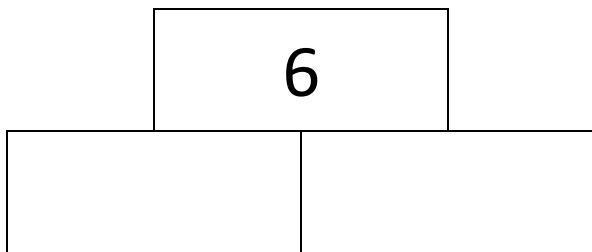
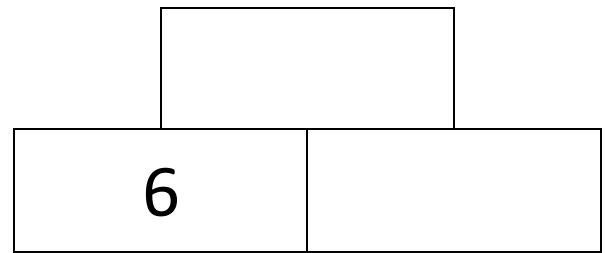
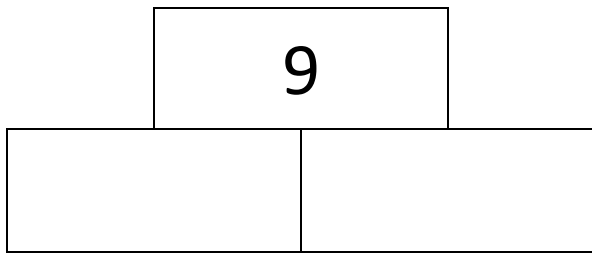
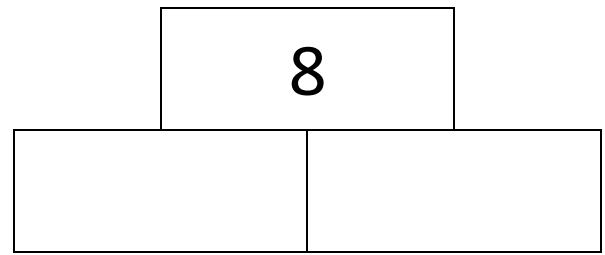
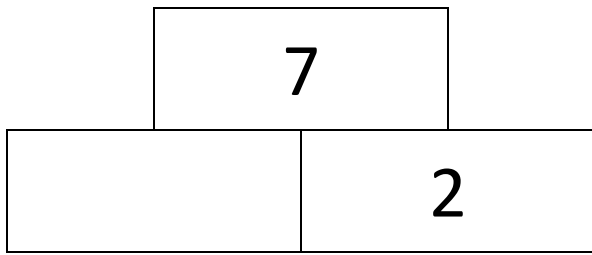


Zahlenhäuser 3





Zahlenhäuser 4





Welche Aufgaben gehören zusammen?

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$4 + 3 =$	<input type="text"/>
$6 + 1 =$	<input type="text"/>

$1 + 6 =$	<input type="text"/>
$3 + 4 =$	<input type="text"/>
$2 + 4 =$	<input type="text"/>
$2 + 6 =$	<input type="text"/>

$6 + 3 =$	<input type="text"/>
$6 + 4 =$	<input type="text"/>
$5 + 2 =$	<input type="text"/>
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$4 + 6 =$	<input type="text"/>
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$3 + 6 =$	<input type="text"/>



Minusaufgaben 1

$6 - 1 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $6 - 2 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $6 - 3 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $6 - \begin{array}{|c|} \hline \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array}$

$8 - 2 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $8 - 3 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $8 - 4 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $8 - \begin{array}{|c|} \hline \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array}$

$7 - 1 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $7 - 2 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $7 - 3 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $7 - \begin{array}{|c|} \hline \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array}$

$9 - 3 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $9 - 4 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $9 - 5 = \begin{array}{|c|} \hline \\ \hline \end{array}$
 $9 - \begin{array}{|c|} \hline \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array}$



Minusaufgaben 2

10 - 4	=		
10 - 5	=		
10 - 6	=		
10 -	=		

8 - 5	=		
8 - 4	=		
8 - 3	=		
8 -	=		

7 - 4	=		
7 - 3	=		
7 - 2	=		
7 -	=		

9 - 6	=		
9 - 5	=		
9 - 4	=		
9 -	=		