



Das Zahlenbuch

Förderheft

1

Lösungen

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Einführung der Addition

Plusaufgaben in der Umwelt	30	56 36
Plusaufgaben am Zehnerfeld	32	58 38
Verdoppeln	33	60 40
Einfache Plusaufgaben	34	62 41
Schwierige Plusaufgaben	37	64 42
Rückblick	38	68 44
Forschen und Finden	39	69 45

Einführung der Subtraktion

Minusaufgaben in der Umwelt	40	76 49
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Erzählen und Rechnen	50	92 59
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	SB	AH
Kleiner, größer, gleich	62	110 71
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Die ausgewiesenen Kopiervorlagen (KV) befinden sich im Förderkommentar Lernen 1.

Symbole



Schreibe oder male hier.



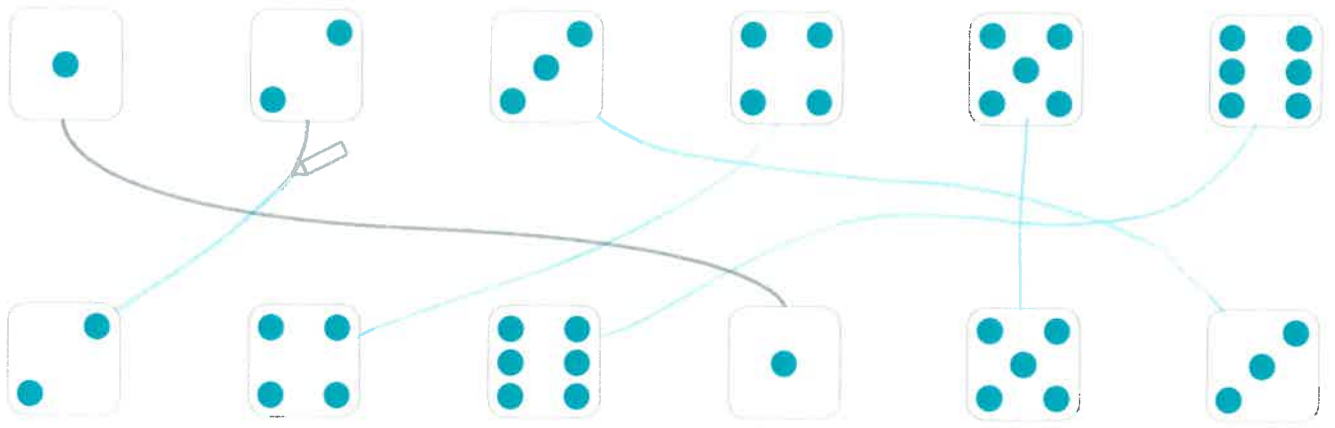
Benutze Material.



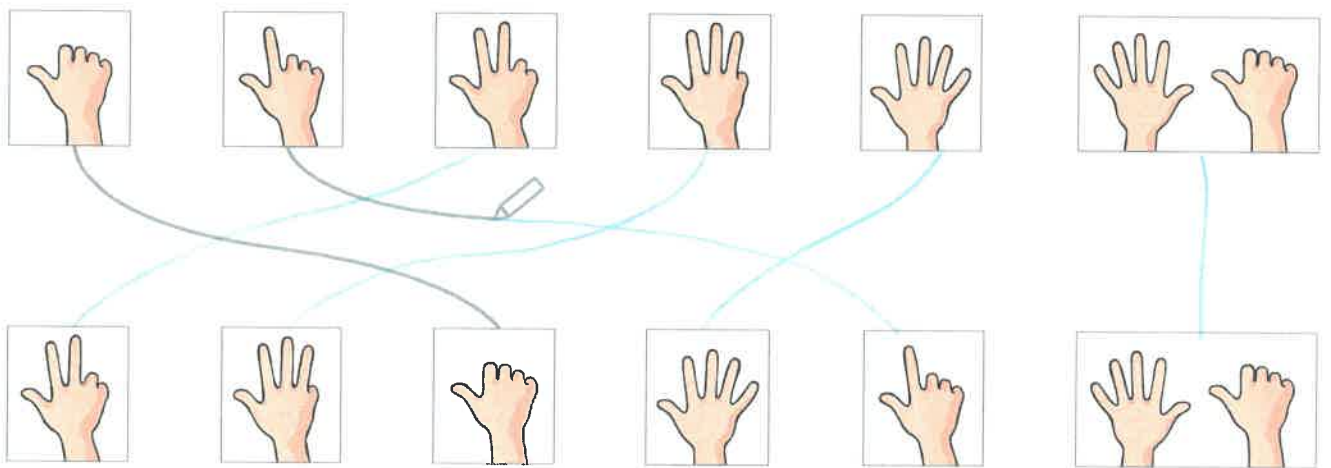
Kreuze an.

Zählen und Spielen

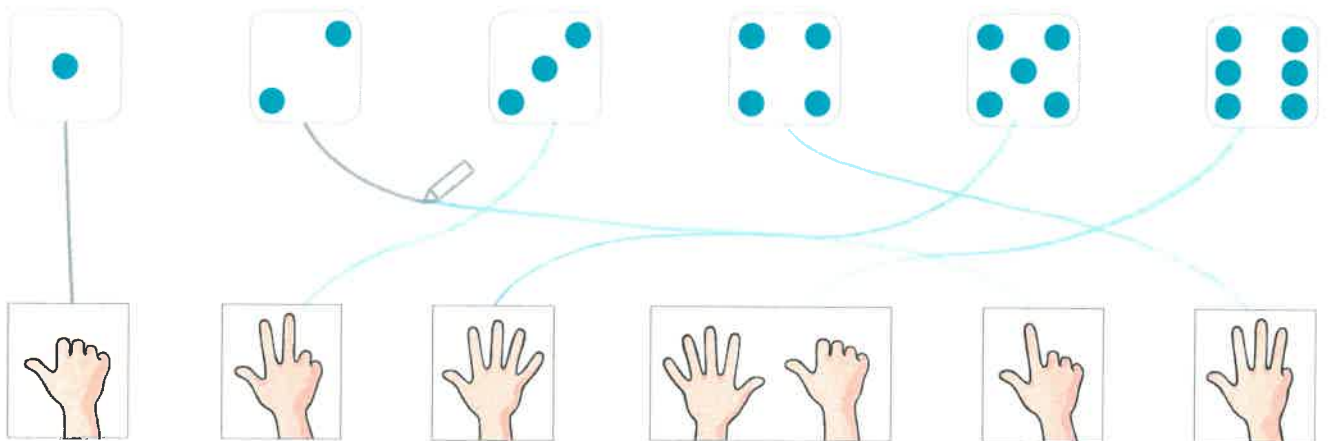
1



2



3



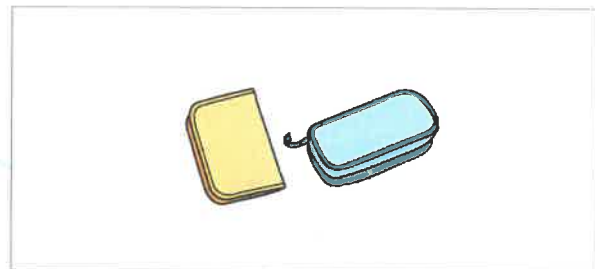
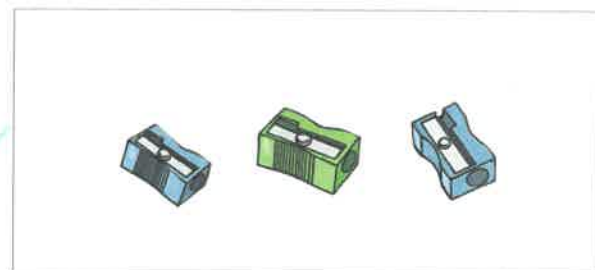
1 Gleiche Würfelbilder verbinden. 2 Gleiche Fingerbilder verbinden. 3 Würfelbilder und Fingerbilder verbinden.



Zahlen bis 10

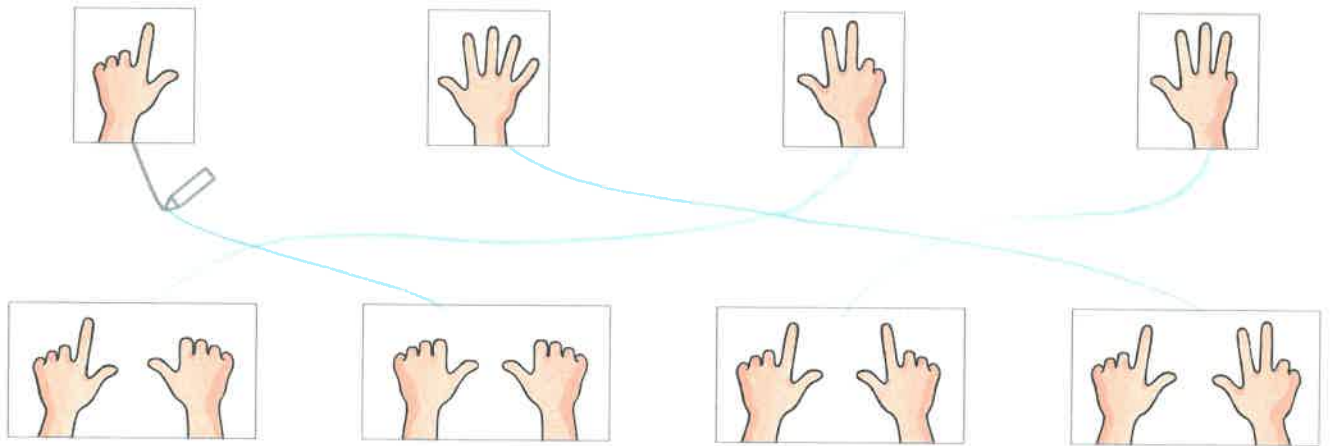
1

1	
2	
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9	
10	

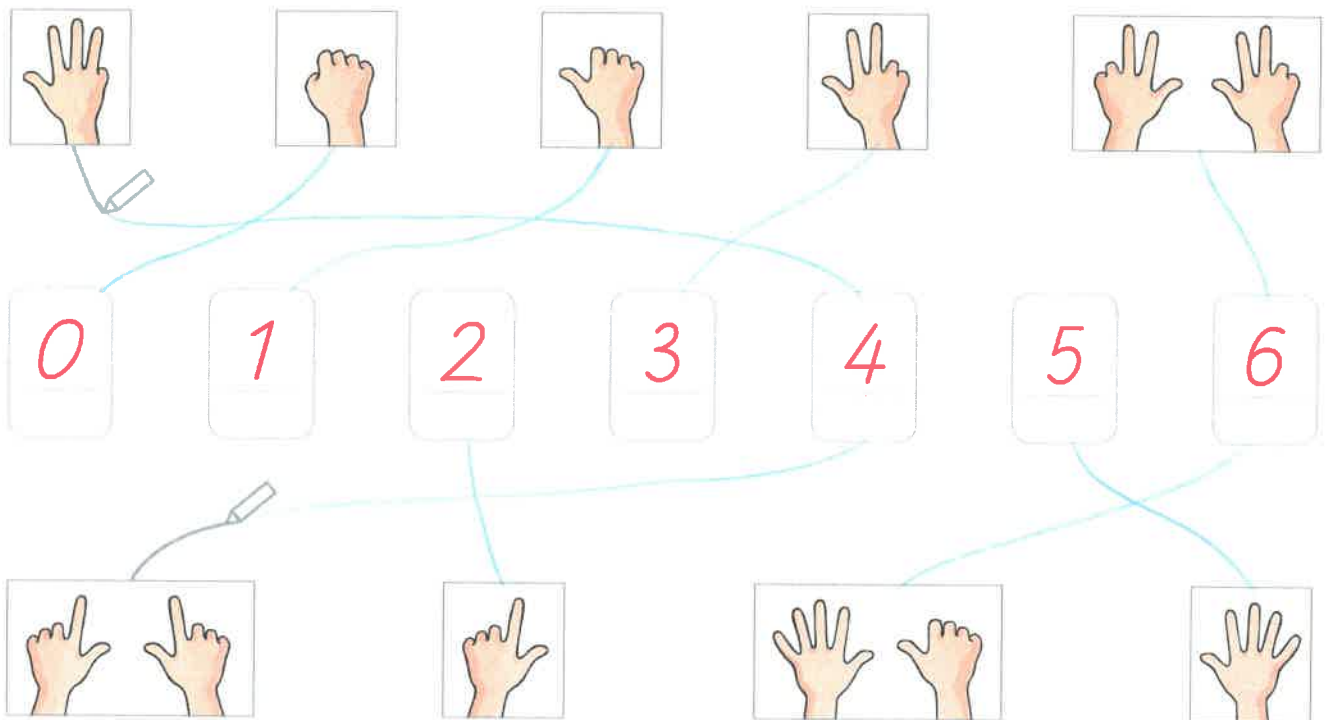


Zahlen am Körper

1



2



3

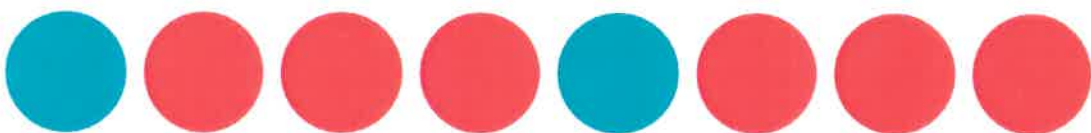


Aufgaben, die nicht bearbeitet werden, ggf. abdecken. 1 Fingerbilder mit gleichen Anzahlen verbinden. 2 Fingerbild und Zahl verbinden, einigen Zahlen werden mehrere Fingerbilder zugeordnet. 3 Anzahlen zu den Fingerbildern notieren.



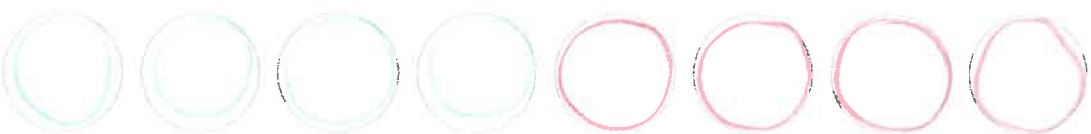
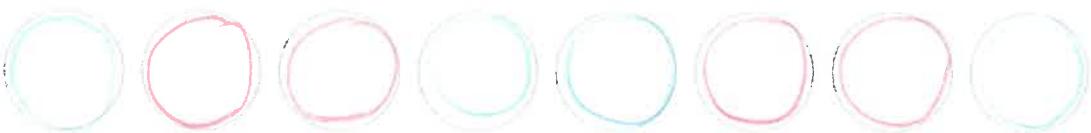
Muster legen

1 Lege nach.



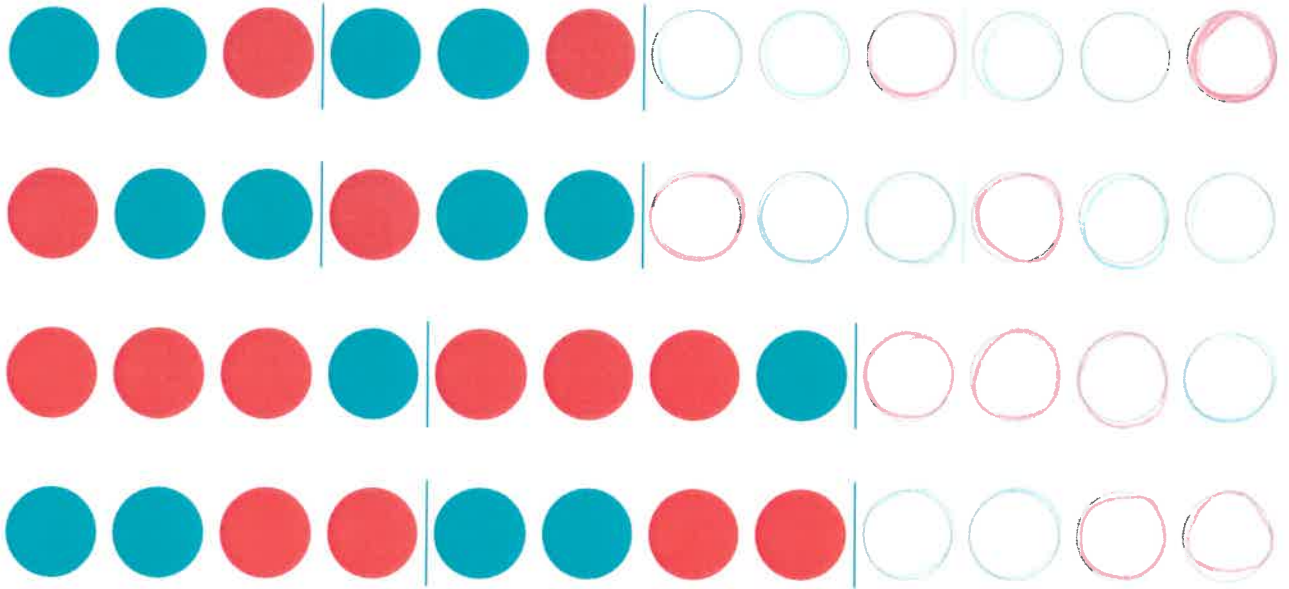
2 Finde selbst Muster.

Beispiele

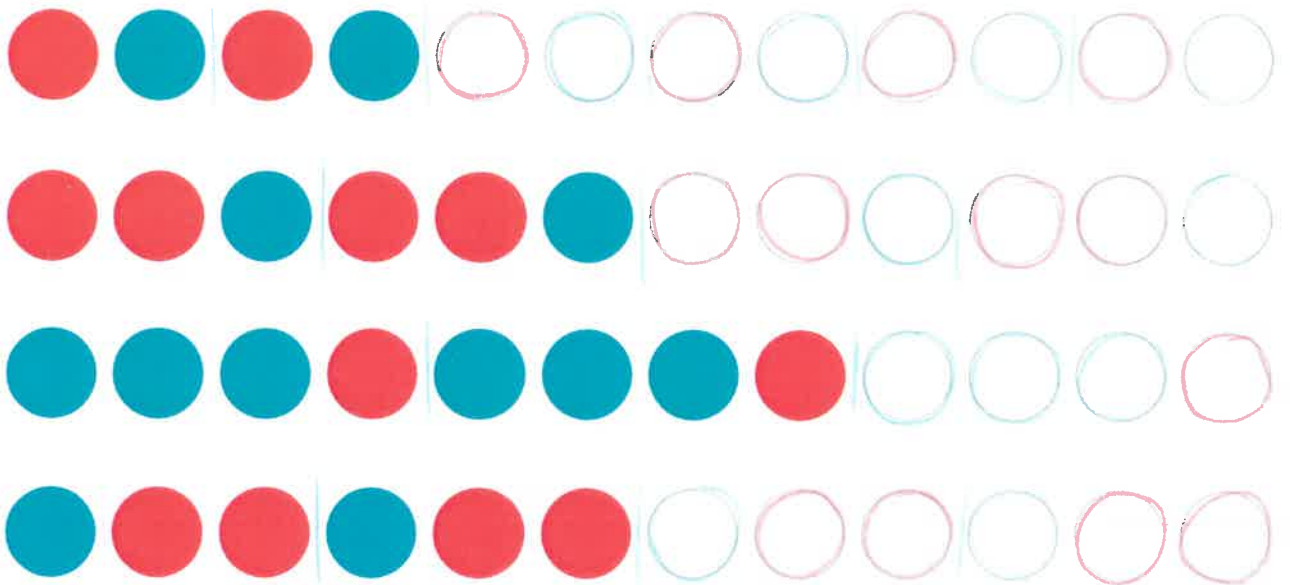


Muster legen

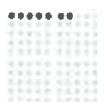
1 Male weiter.



2 Male weiter.



3 Male eigene Muster. *Beispiele*



Zahlen treffen

1



2



3



Zahlen schnell sehen

1



2



3



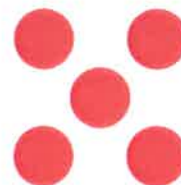
2



3

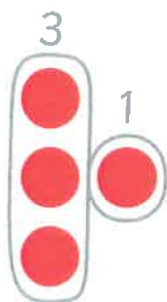


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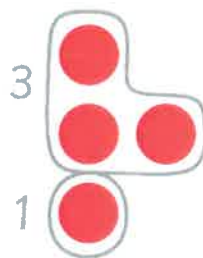


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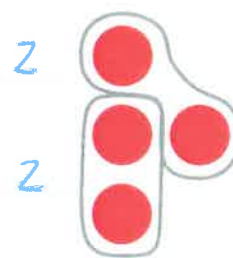
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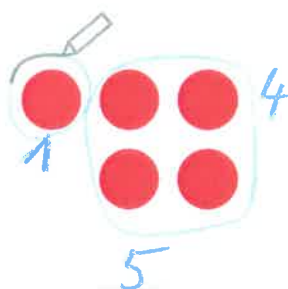
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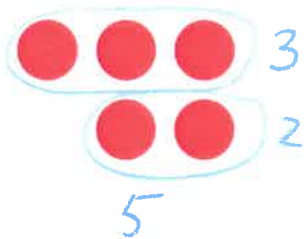
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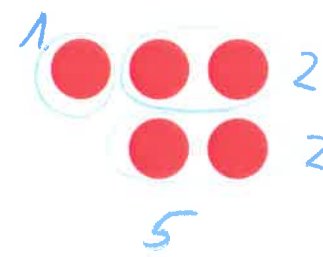
4



5

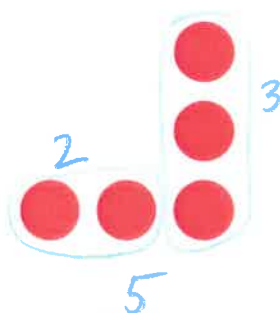


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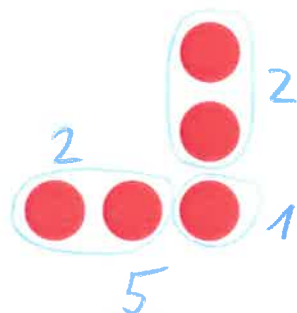


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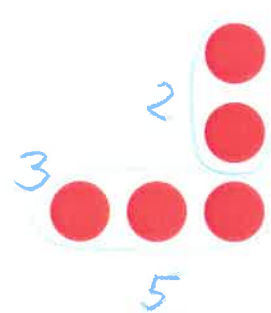
Beispiele



5



5

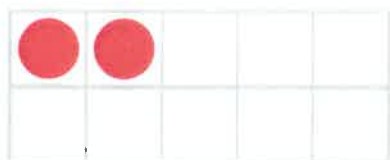


5



Zehnerfelder

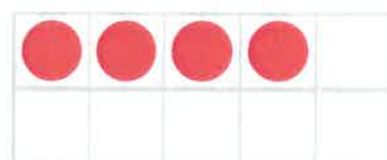
1



2



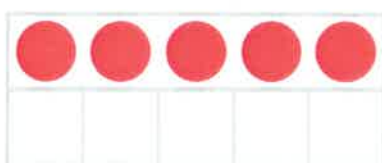
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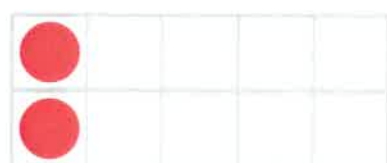
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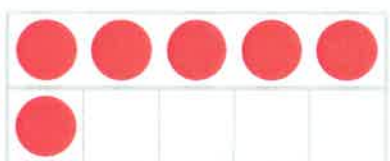
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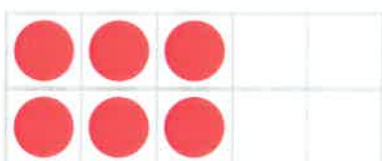
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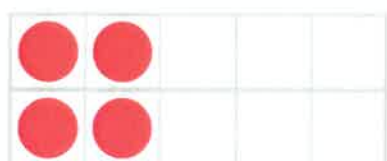
2



6



6



4

2 Male.

Beispiele



4



5



6



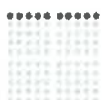
8



7

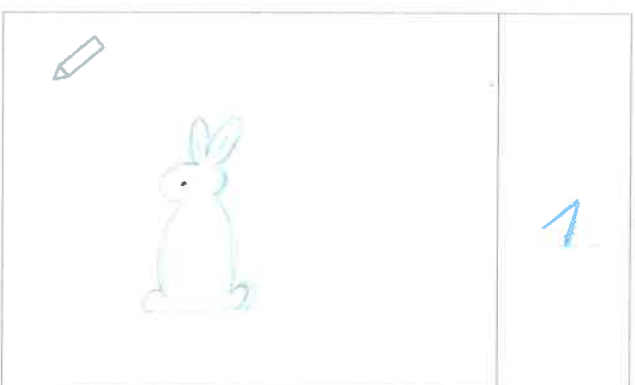
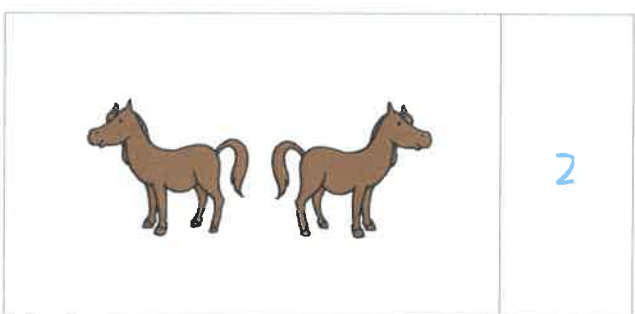
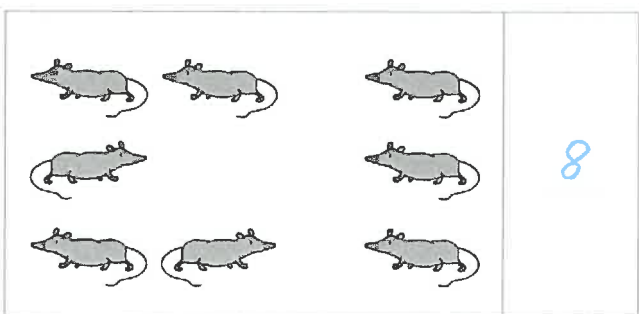
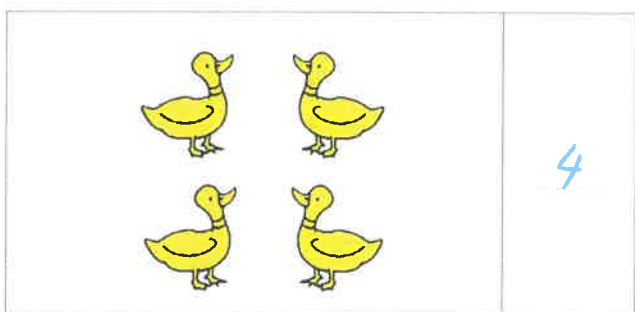
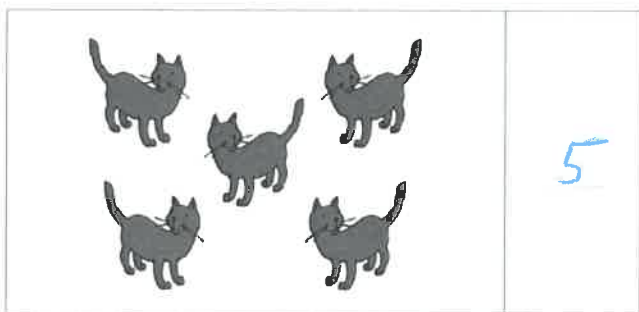
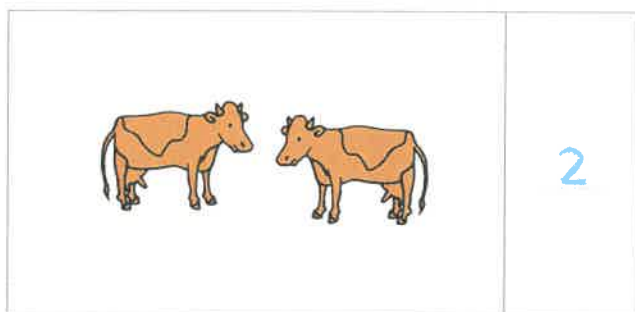
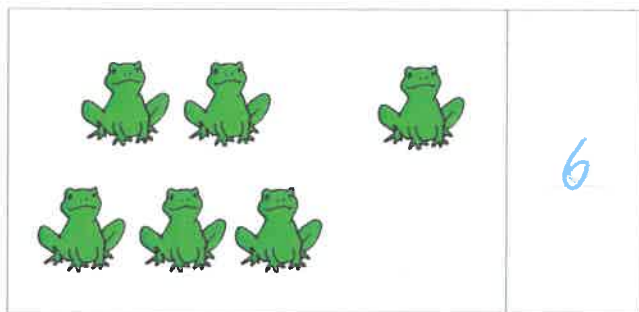
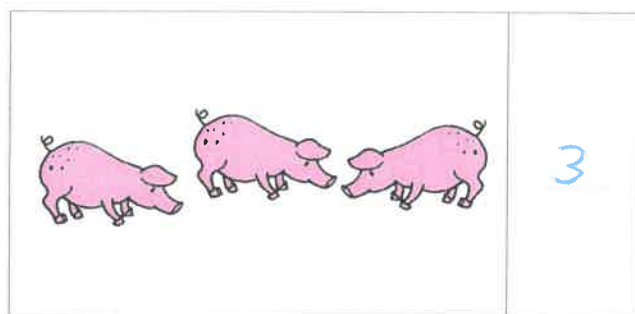
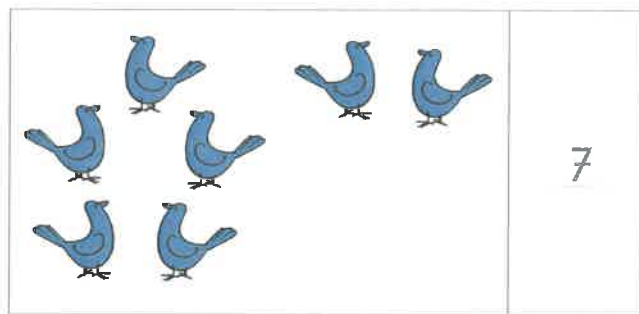


9



Kraft der 5

1



1 Anzahlen bestimmen. Lösung mit der im Schülerbuch S. 20 vergleichen.

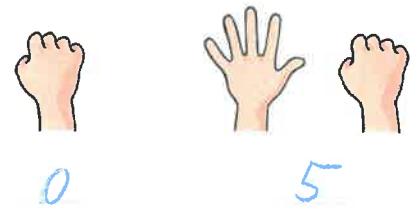
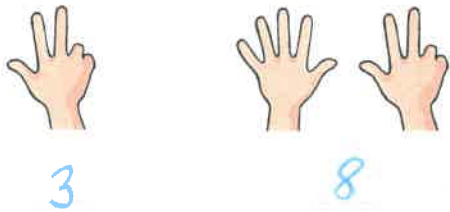


Kraft der 5

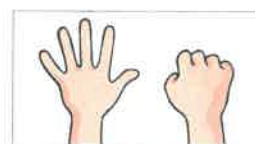
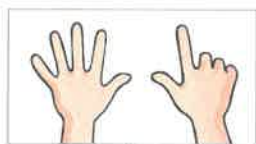
1 Immer 5 dazu.



6 sind
5 und 1.



2 Wie viele?



5

6

7

8

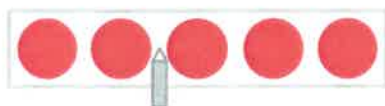
9

10

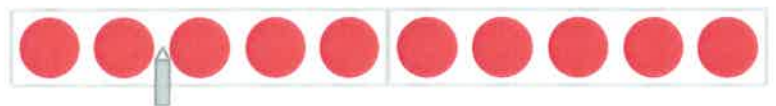


Immer 5 – immer 10

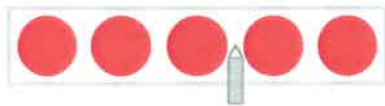
1 Zerlege.



$$2 + 3$$



$$2 + 8$$



$$3 + 2$$



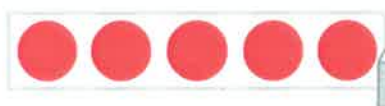
$$3 + 7$$



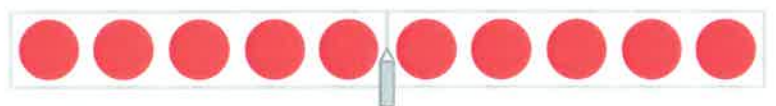
$$4 + 1$$



$$4 + 6$$

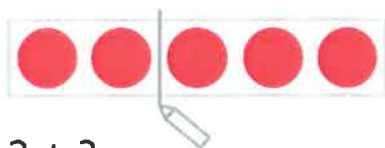


$$5 + 0$$



$$5 + 5$$

2 Immer 5. Zerlege.



$$2 + 3$$



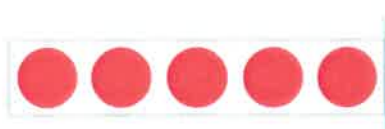
$$3 + 2$$



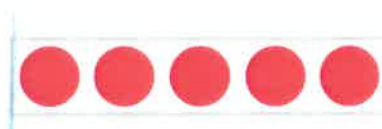
$$1 + 4$$



$$4 + 1$$



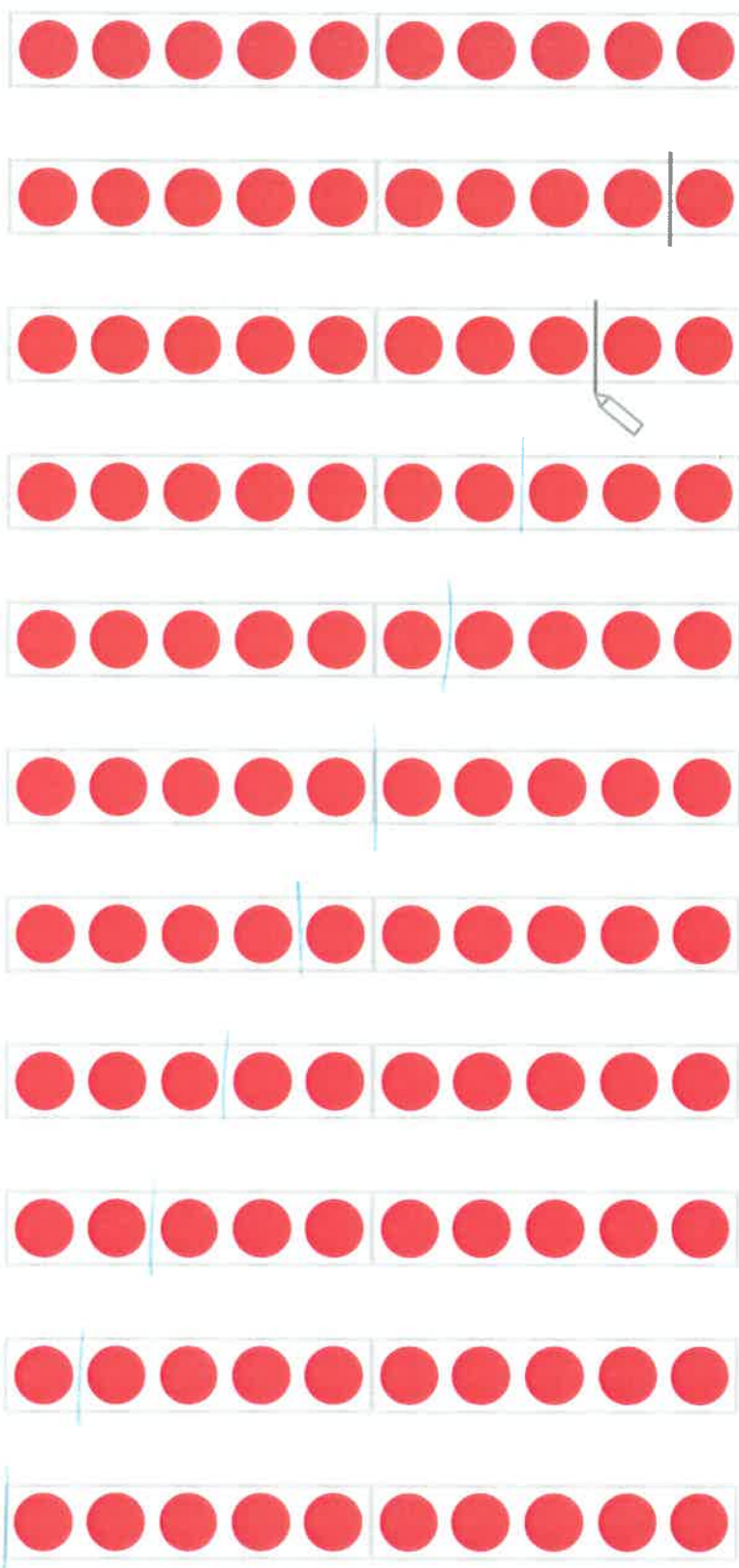
$$5 + 0$$



$$0 + 5$$

Zahlen zerlegen

1 Zerlege.



10
$10 + 0$
$9 + 1$
$8 + 2$
$7 + 3$
$6 + 4$
$5 + 5$
$4 + 6$
$3 + 7$
$2 + 8$
$1 + 9$
$0 + 10$



Mengen vergleichen

1 Kreuze an: Wer hat mehr?

☐		
☒		
☒		
☐		

☐		
☒		
☐		
☒		

2 Male und kreuze an: Wer hat mehr?

☐		
☒		
☒		
☐		

☒		
☐		
☐		
☒		

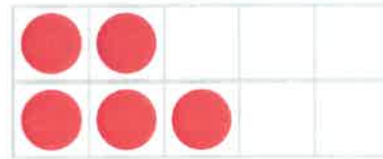
3 Blau hat mehr. Wie viele hat Rot? Male.

☒		
☐		

☒		
☐		

Ich kann Zahlen bis 10 legen und zählen, vergleichen und zerlegen.

5

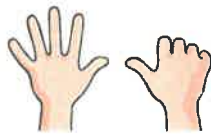


$$2 + 3$$

1 Wie viele?



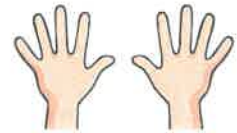
1



6

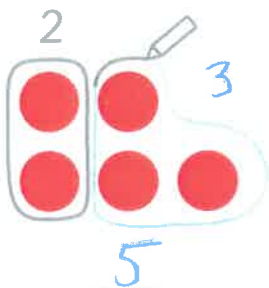


5

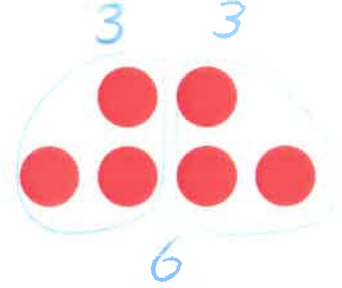
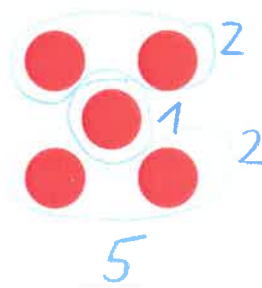
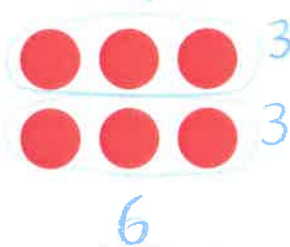


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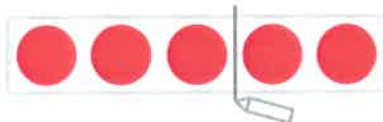
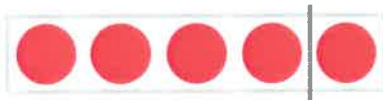
2



Beispiel



3 Zerlege.



5

$$5 + 0$$

$$4 + 1$$

$$3 + 2$$

$$2 + 3$$

$$1 + 4$$

$$0 + 5$$



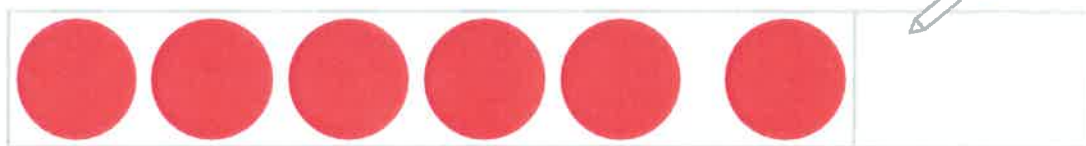
Forschen und Finden: Plättchen werfen

1  Immer 6.



Beispiel

$$\underline{6} + \underline{0}$$



$$\underline{5} + \underline{1}$$



$$\underline{4} + \underline{2}$$



$$\underline{3} + \underline{3}$$



$$\underline{2} + \underline{4}$$



$$\underline{1} + \underline{5}$$



$$\underline{0} + \underline{6}$$

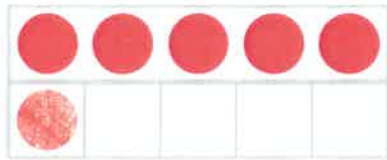


1 Plättchen werfen und legen oder malen, passende Zerlegungsaufgaben notieren. Kinder anregen nur unterschiedliche Aufgaben zu notieren. Darüber sprechen, ob alle Möglichkeiten gefunden wurden. Ergebnisse in Strichliste festhalten.



Zahlen bis 20

1

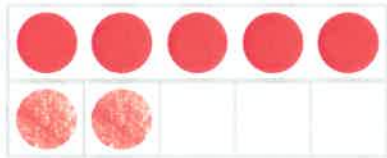


6

$$5 + 1$$



$$5 + 1$$

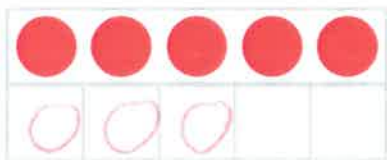


7

$$5 + 2$$



$$5 + 2$$

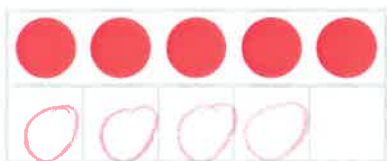


8

$$5 + 3$$



$$5 + 3$$

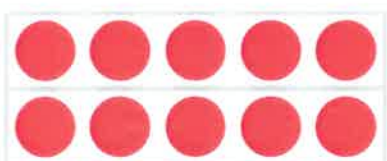


9

$$5 + 4$$



$$5 + 4$$



10

$$5 + 5$$

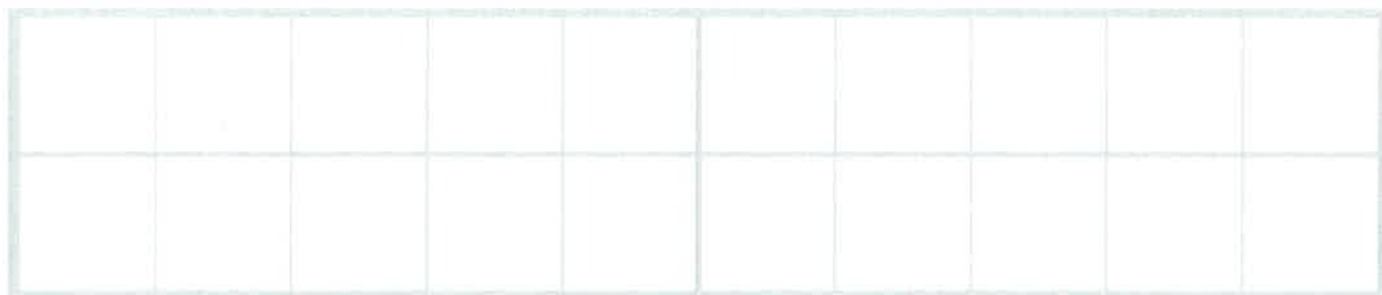
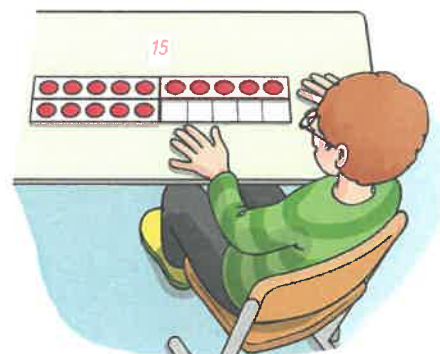


$$5 + 5$$

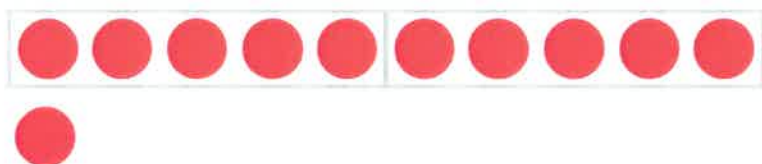


Zahlen bis 20

1 Lege am Zwanzigerfeld.



2 Welche Zahlen?



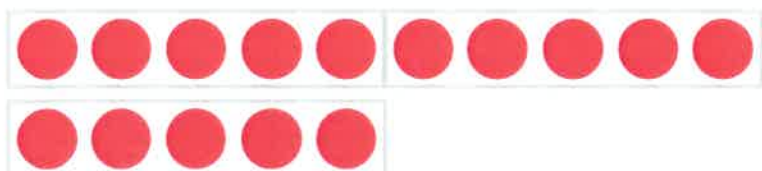
10
1

11



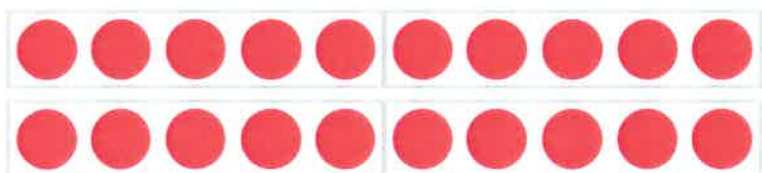
10
2

12



10
5

15



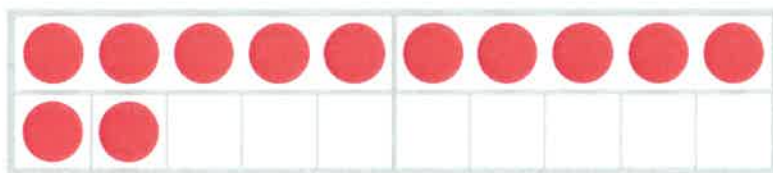
10
10

20



Das Zwanzigerfeld

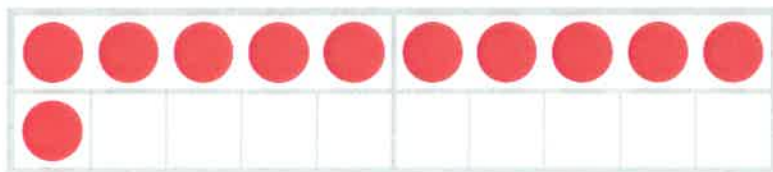
1 Wie viele?



10
2

$10 + 2$

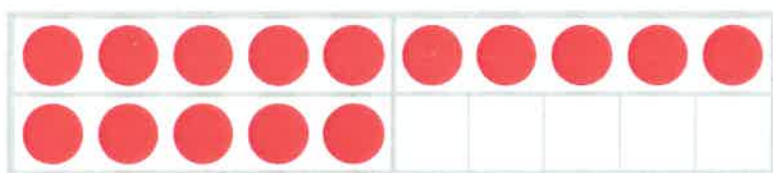
12



10
1

$10 + 1$

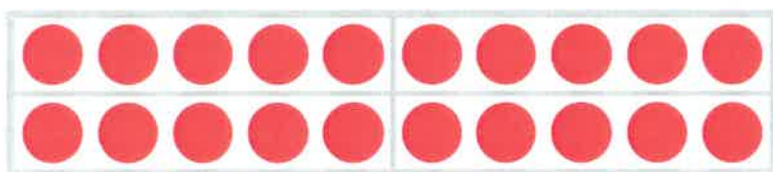
11



10
5

$10 + 5$

15

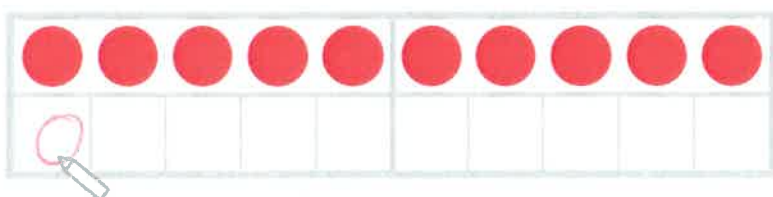


10
10

$10 + 10$

20

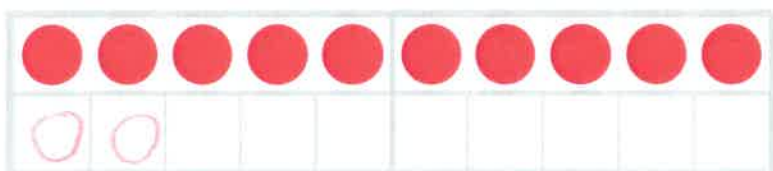
2 Male.



10
1

$10 + 1$

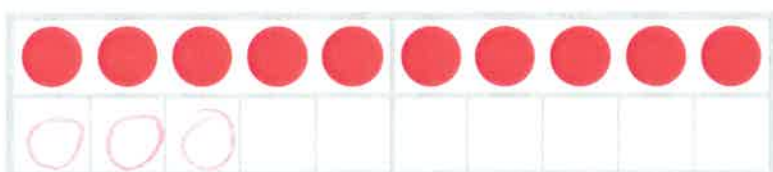
11



10
2

$10 + 2$

12



10
3

$10 + 3$

13



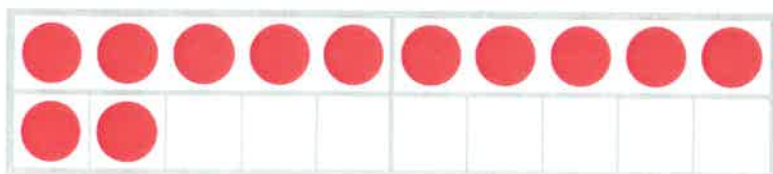
Das Zwanzigerfeld

1 Immer 10 mehr.



2

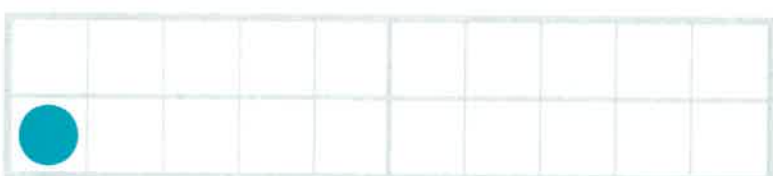
2



10

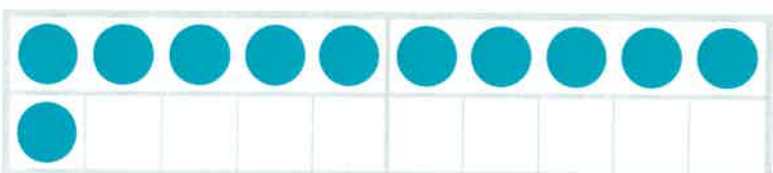
2

12



1

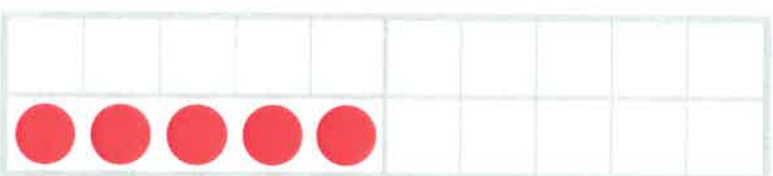
1



10

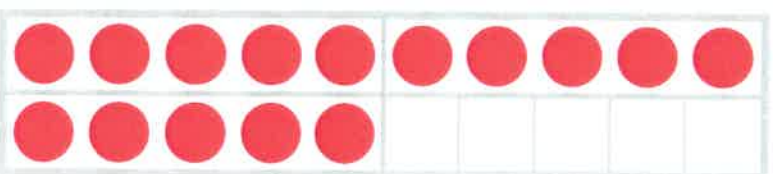
1

11



5

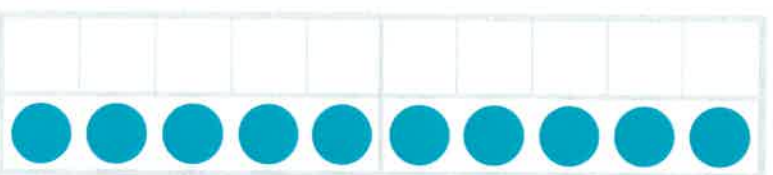
5



10

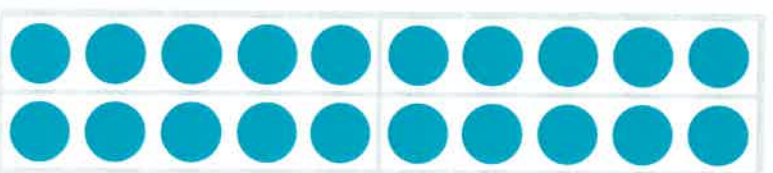
5

15



10

10



10

10

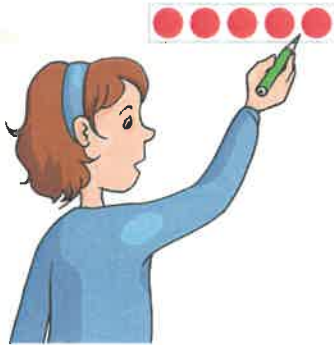
20

Aufgaben, die nicht bearbeitet werden, ggf. abdecken. 1 Zahlen bis 20 als Zehner und Einer legen und Gesamtanzahl bestimmen. Verzahnung von Darstellungen. Über die Beziehungen zwischen den Zahlen sprechen.



Immer 5 – immer 10

$4 + 1$



$9 + 1$



1 Immer 5.



$4 + 1$



$3 + 2$



$2 + 3$

Immer 10.



$9 + 1$



$8 + 2$



$7 + 3$

2 Zerlege.

Immer 5.



$1 + 4$

$2 + 3$

$3 + 2$

$4 + 1$

Immer 10.



$1 + 9$

$2 + 8$

$3 + 7$

$4 + 6$



Immer 10

1 Immer 10.



$$3 + 7$$



$$7 + 3$$



$$4 + 6$$



$$6 + 4$$

2 Finde Paare.

Beispiele



$$0 + 10$$

$$10 + 0$$

$$2 + 8$$

$$8 + 2$$

$$4 + 6$$

$$6 + 4$$

$$6 + 4$$

$$4 + 6$$

$$8 + 2$$

$$2 + 8$$

$$10 + 0$$

$$0 + 10$$



Die Zahlenreihe

1 Welche Zahlen fehlen?

1 2 3 4 5 6 7 8 9 10 11 12

1 2 3 4 5 6 7 8 9 10 11 12

2

4 5 6 7 8 9 10 11 12

3 4 5 9 10 11 12

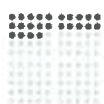
3 Verbinde.

5 7 9 11

5 10

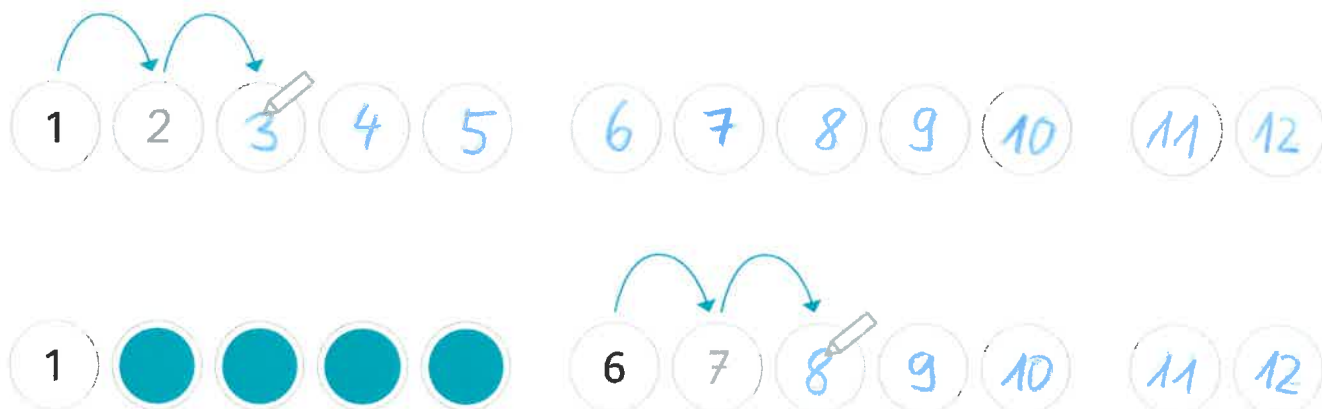
2 4 6 8 10 12

5 10

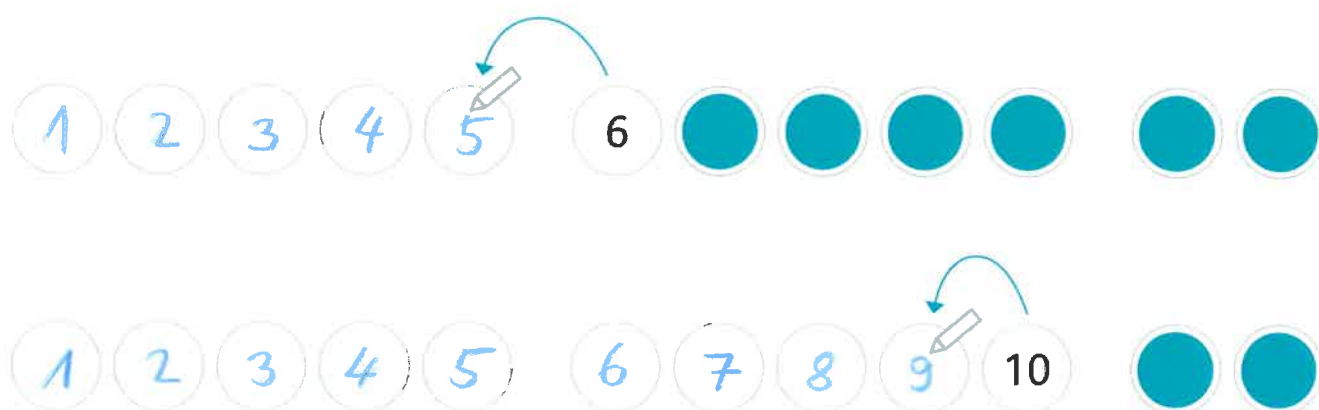


Die Zahlenreihe

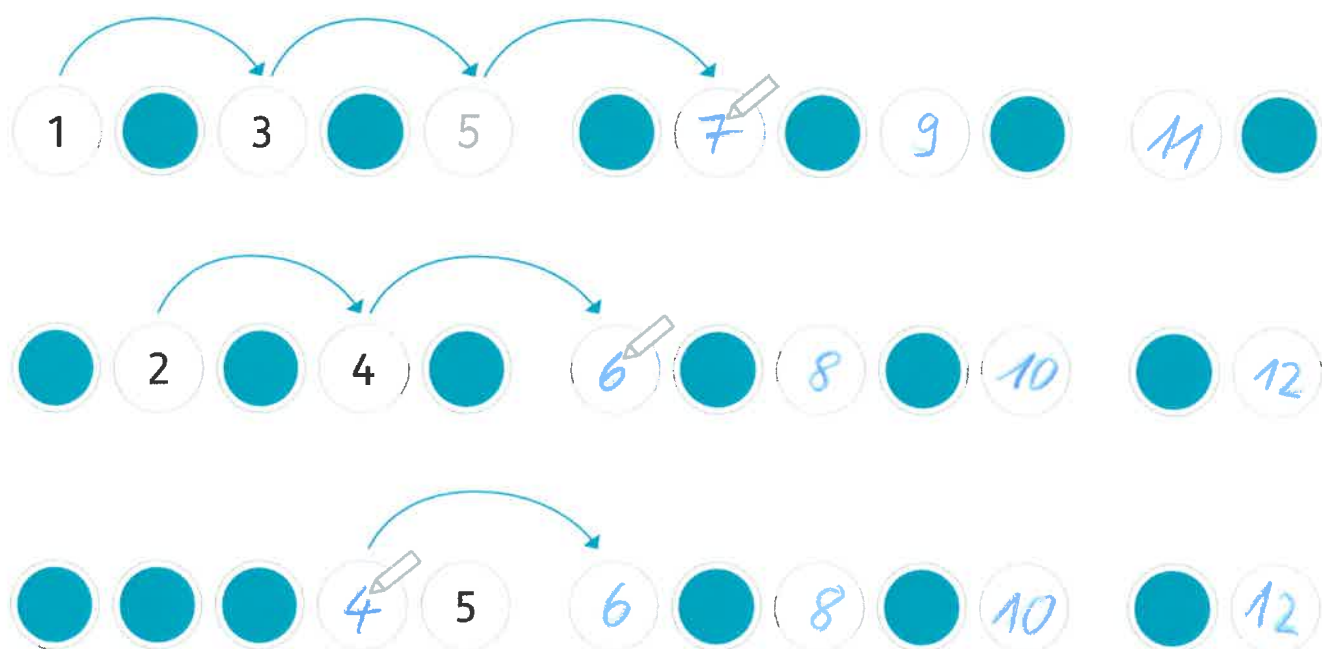
1 Immer 1 weiter.



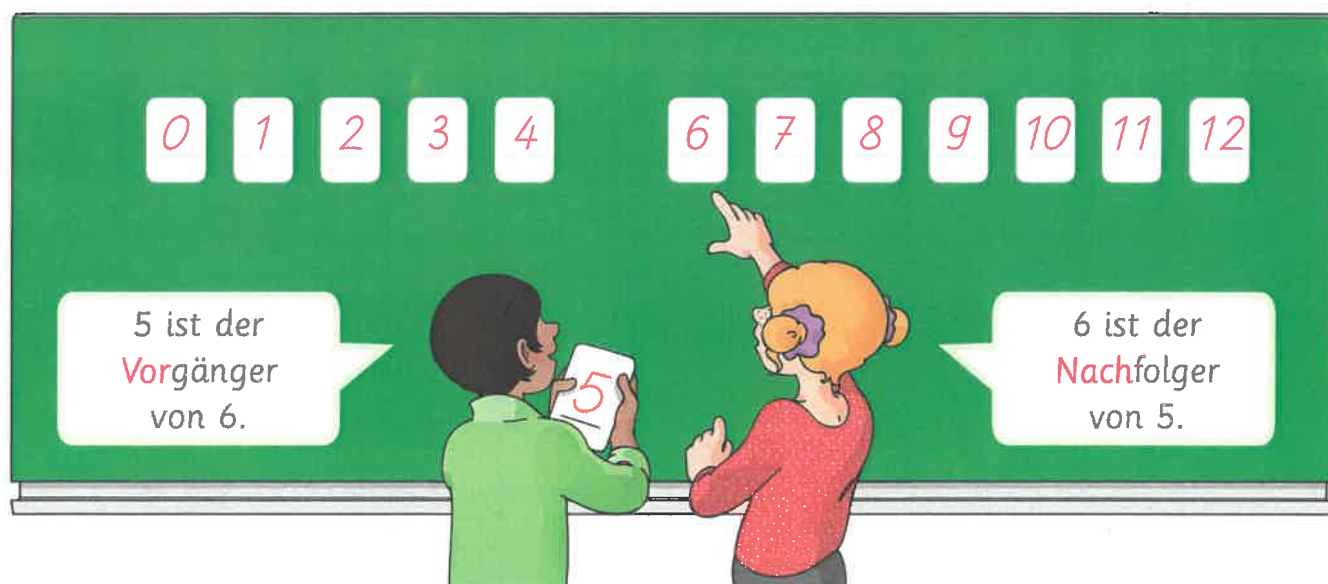
2 Immer 1 zurück.



3 Immer 2 weiter.



Immer der Reihe nach



1 Nachfolger.

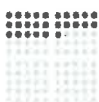
2	3	3	4	4	5	9	10
6	7	5	6	7	8	1	2

2 Vorgänger.

3	4	2	3	1	2	7	8
0	1	4	5	9	10	6	7

3 Finde Vorgänger und Nachfolger.

4	5	5	6	9	10	10	11
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Immer der Reihe nach

1 Nachbarzahlen.

3	4	5	7	8	9	8	9	10
4	5	6	9	10	11	2	3	4
5	6	7	11	12	13	10	11	12

2 Welche Zahl ist dazwischen?

5	6	7	3	4	5	8	9	10
0	1	2	4	5	6	10	11	12

3 Finde Nachbarzahlen.

Beispiele

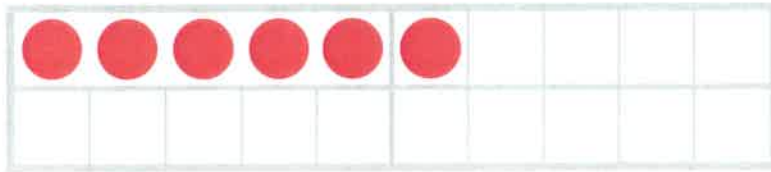


1	2	3	7	8	9	4	5	6
6	7	8	11	12	13	0	1	2

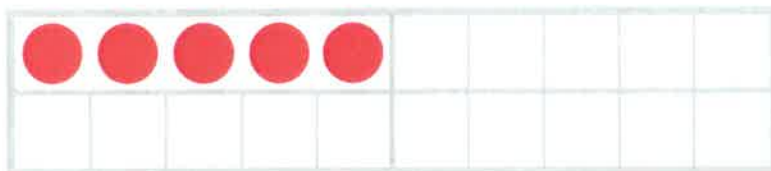


Ich kann Zahlen lesen, schreiben, zerlegen und ordnen.

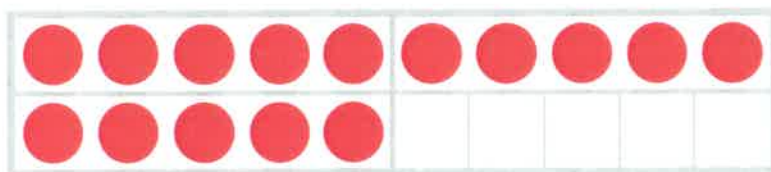
1 Wie viele?



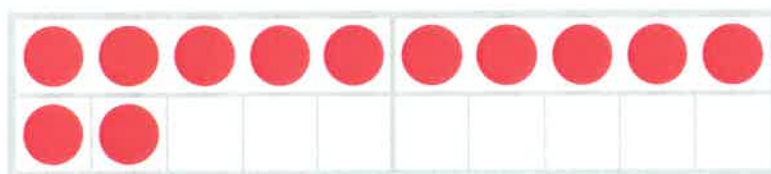
6



5



15



12

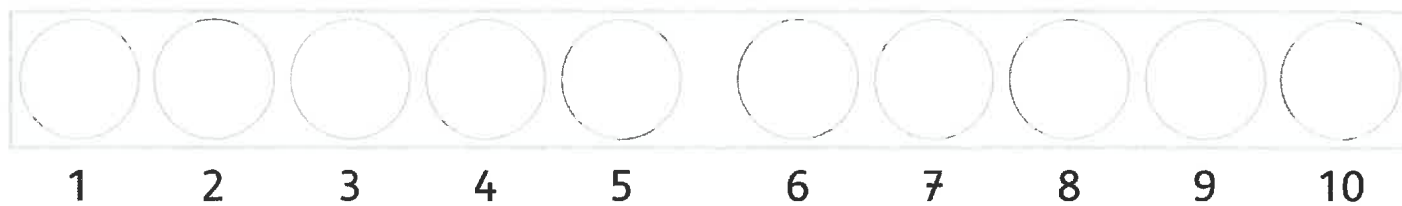
2 Welche Zahlen fehlen?



3 Nachbarzahlen.

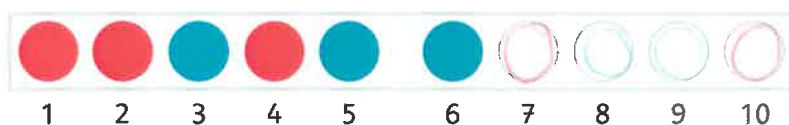
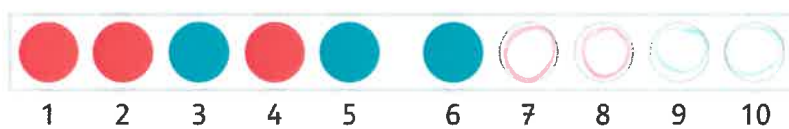
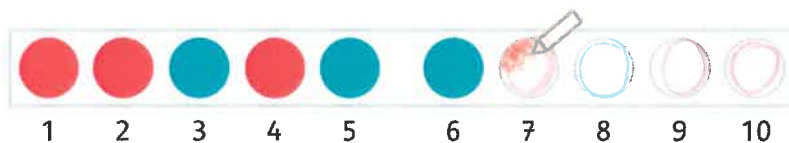


Forschen und Finden: Rot gegen Blau



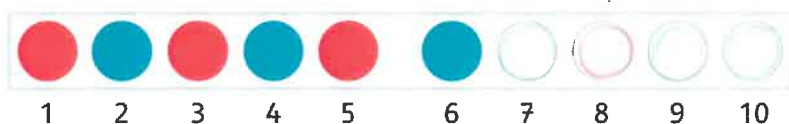
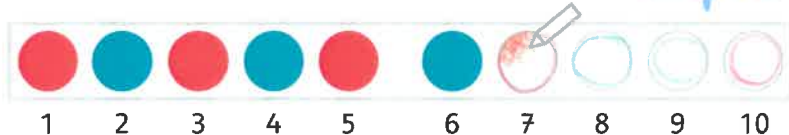
1 Male. Kreuze an, wer gewinnt.

Beispiele



2 Male.

Beispiel

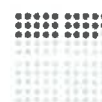


3 Blau gewinnt. Lege und male.

Beispiel



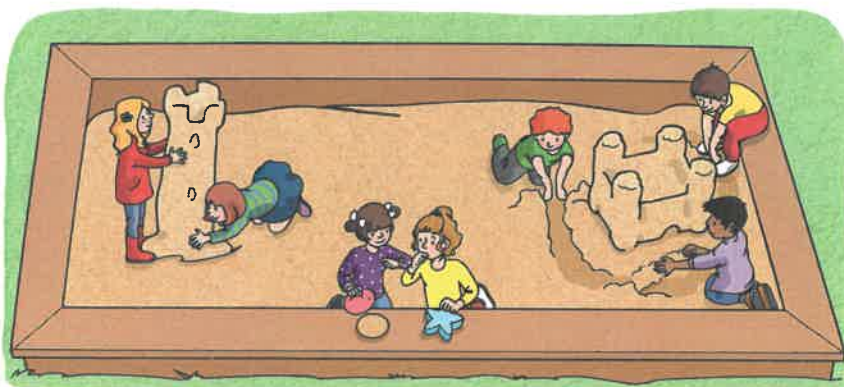
Die Plättchen können gelegt oder gemalt werden. 1 Mögliche Spielausgänge notieren. Ankreuzen, wer gewinnt. 2 Probieren, so dass Rot bzw. Blau gewinnt. Lösung dokumentieren. 3 Legen, so dass Blau gewinnt. Lösung dokumentieren.



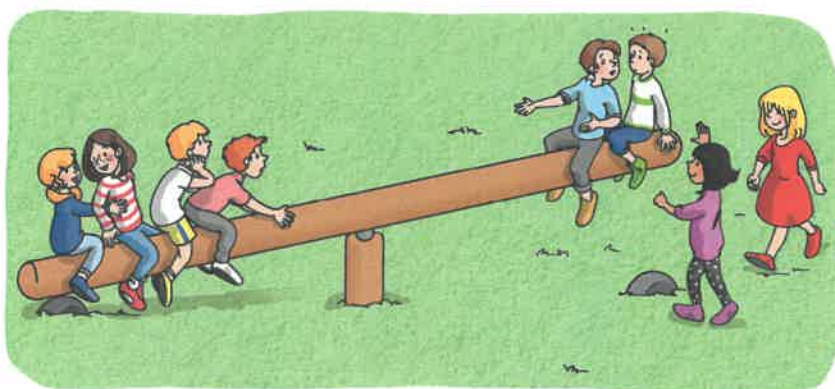
Plusaufgaben in der Umwelt

1 Finde Plusaufgaben. Erzähle: Was passiert?

Beispiel



$$2 + 3$$

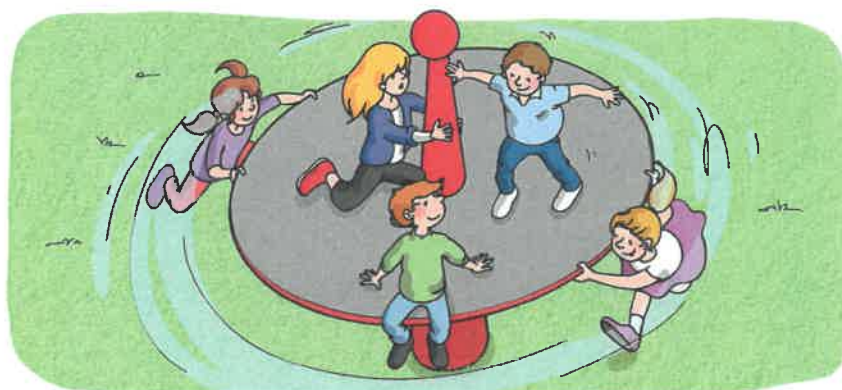


$$6 + 2$$

$$2 + 2$$



$$5 + 2$$



$$3 + 2$$



Plusaufgaben in der Umwelt

1 Welche Aufgaben passen zum Bild?



$3 + 3$

$2 + 5$



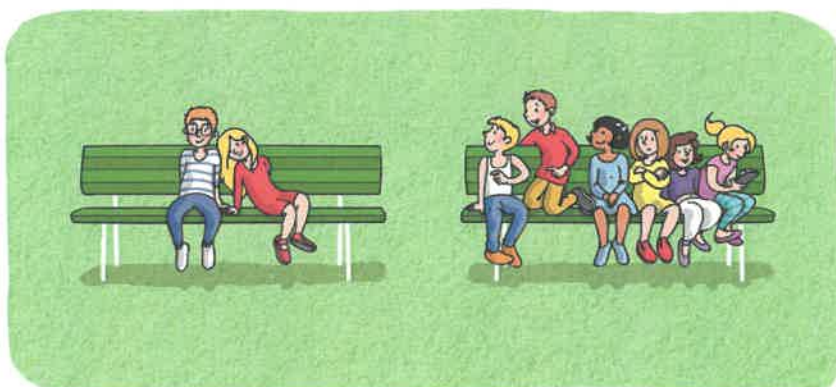
$2 + 4$

$3 + 4$



$1 + 3$

$2 + 6$



$2 + 2$

$3 + 5$

1 Passende Terme zum Bild zuordnen. Mehrere Deutungen sind möglich. Die Kinder können auch mit Stiften die gefundenen Gruppen einkreisen und die Zahlen entsprechend farblich markieren.

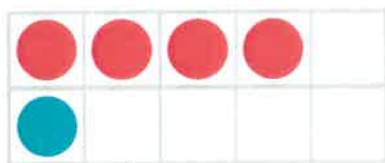


Plusaufgaben am Zehnerfeld

1 Finde Aufgabe und Tauschaufgabe.

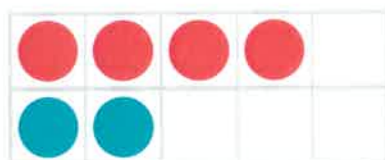


$$\underline{4} + \underline{1} = \underline{5}$$



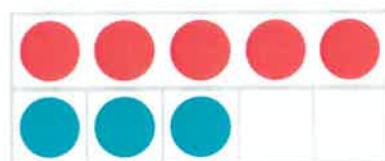
$$\underline{1} + \underline{4} = \underline{5}$$

$$\underline{4} + \underline{2} = \underline{6}$$



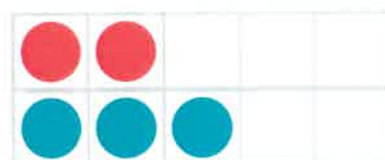
$$\underline{2} + \underline{4} = \underline{6}$$

$$\underline{5} + \underline{3} = \underline{8}$$



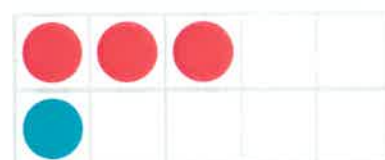
$$\underline{3} + \underline{5} = \underline{8}$$

$$\underline{2} + \underline{3} = \underline{5}$$



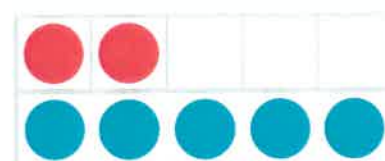
$$\underline{3} + \underline{2} = \underline{5}$$

$$\underline{3} + \underline{1} = \underline{4}$$



$$\underline{1} + \underline{3} = \underline{4}$$

$$\underline{2} + \underline{5} = \underline{7}$$

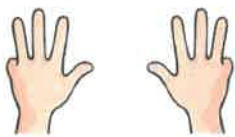


$$\underline{5} + \underline{2} = \underline{7}$$

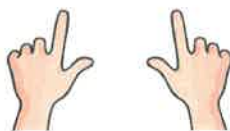


Verdoppeln

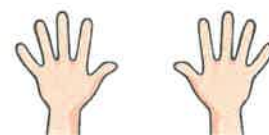
1 Verdoppeln.



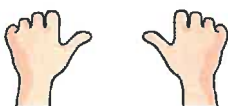
$$4 + 4 = 8$$



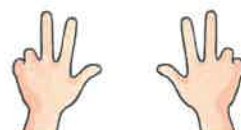
$$2 + 2 = 4$$



$$5 + 5 = 10$$



$$1 + 1 = 2$$

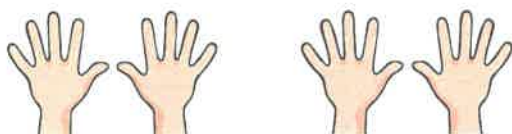


$$3 + 3 = 6$$

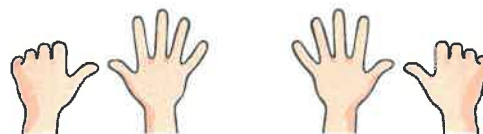


$$0 + 0 = 0$$

2



$$10 + 10 = 20$$

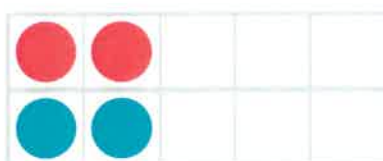


$$6 + 6 = 12$$

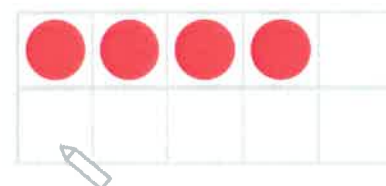
3 Lege, male und rechne.



$$2 + 2 = 4$$



$$4 + 4 = 8$$



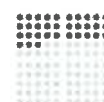
$$3 + 3 = 6$$



$$5 + 5 = 10$$



$$1 + 1 = 2$$



Einfache Plusaufgaben

= 5

= 10

1 Lege, male und rechne.



$2 + 3 = 5$



$1 + 4 = 5$



$4 + 1 = 5$



$0 + 5 = 5$



$3 + 2 = 5$



$5 + 0 = 5$



2 Lege, male und rechne.



$7 + 3 = 10$



$6 + 4 = 10$



$4 + 6 = 10$



$5 + 5 = 10$



$1 + 9 = 10$



$0 + 10 = 10$



3 Rechne.

$2 + 3 = 5$

$4 + 1 = 5$

$2 + 8 = 10$

$5 + 5 = 10$

$3 + 2 = 5$

$2 + 3 = 5$

$3 + 7 = 10$

$3 + 7 = 10$

$4 + 1 = 5$

$0 + 5 = 5$

$4 + 6 = 10$

$1 + 9 = 10$



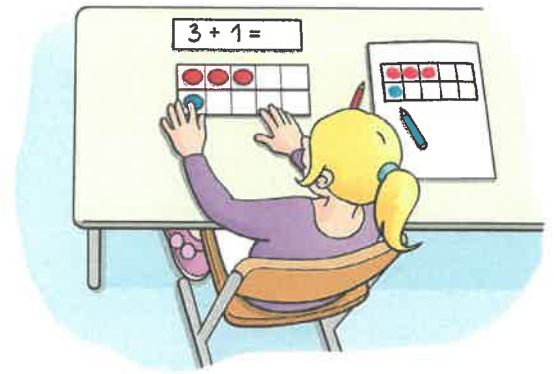
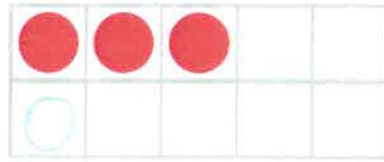
Einfache Plusaufgaben

mit 1

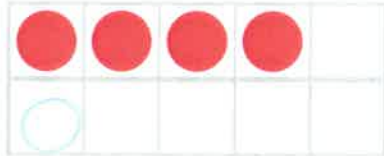
1 Lege, male und rechne.



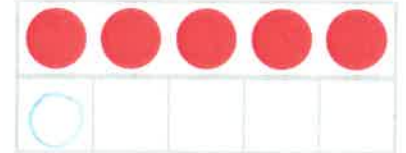
$$3 + 1 = 4$$



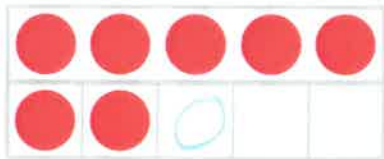
$$4 + 1 = 5$$



$$5 + 1 = 6$$



$$7 + 1 = 8$$



Beispiel

$$9 + 1 = 10$$



2 Lege, male und rechne.



$$5 + 1 = 6$$



$$3 + 1 = 4$$



$$9 + 1 = 10$$



Beispiel

$$1 + 1 = 2$$



3 Rechne.

$$5 + 1 = 6$$

$$1 + 7 = 8$$

$$9 + 1 = 10$$

$$1 + 4 = 5$$

$$6 + 1 = 7$$

$$1 + 8 = 9$$

$$0 + 1 = 1$$

$$1 + 3 = 4$$



Einfache Plusaufgaben

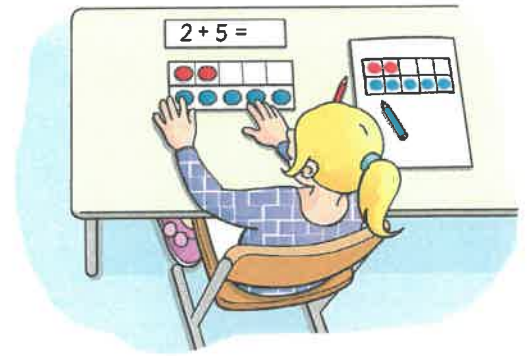
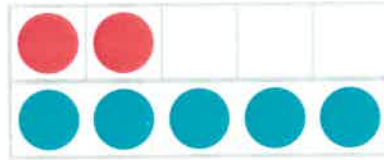
mit 5

mit 10

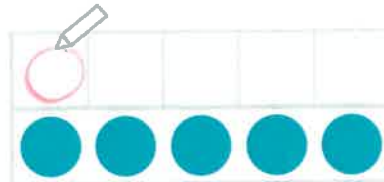
1 Lege, male und rechne.



$$2 + 5 = 7$$



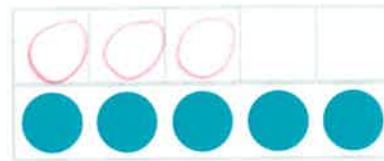
$$1 + 5 = 6$$



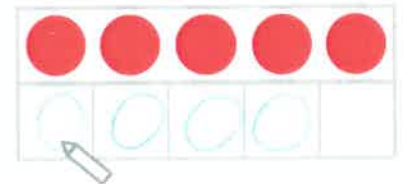
$$5 + 2 = 7$$



$$3 + 5 = 8$$



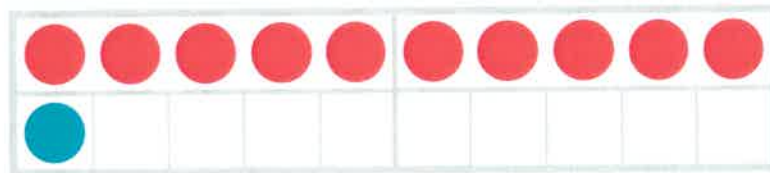
$$5 + 4 = 9$$



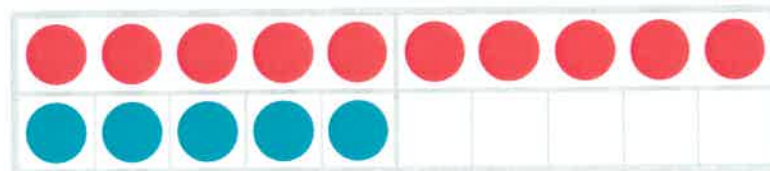
2 Lege, male und rechne.



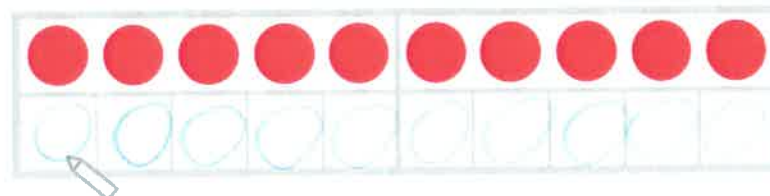
$$10 + 1 = 11$$



$$10 + 5 = 15$$



$$10 + 10 = 20$$



3 Rechne.

$$5 + 2 = 7$$

$$5 + 4 = 9$$

$$10 + 2 = 12$$

$$10 + 5 = 15$$

$$3 + 5 = 8$$

$$5 + 5 = 10$$

$$1 + 10 = 11$$

$$10 + 10 = 20$$



Schwierige Plusaufgaben

1 Immer eine Nachbaraufgabe. mit 1

$$7 + 1 = 8$$

$$7 + 2 = 9$$



$$4 + 1 = 5$$

$$4 + 2 = 6$$



$$8 + 1 = 9$$

$$8 + 2 = 10$$

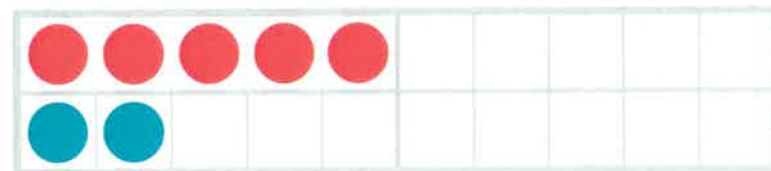


2 Immer zwei Nachbaraufgaben. mit 5

$$4 + 2 = 6$$

$$5 + 2 = 7$$

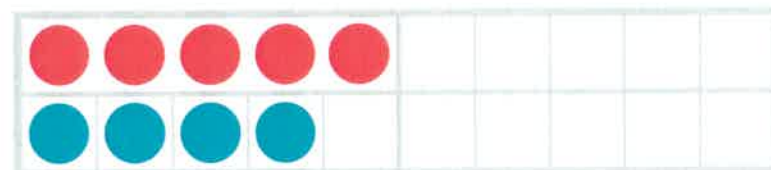
$$6 + 2 = 8$$



$$4 + 4 = 8$$

$$5 + 4 = 9$$

$$6 + 4 = 10$$

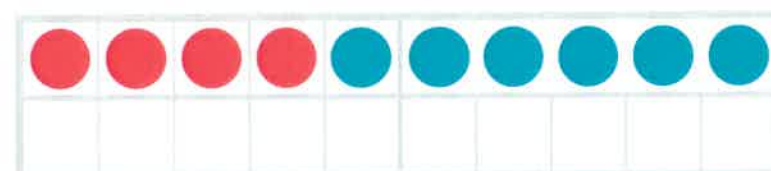


3 Immer zwei Nachbaraufgaben. = 10

$$4 + 5 = 9$$

$$4 + 6 = 10$$

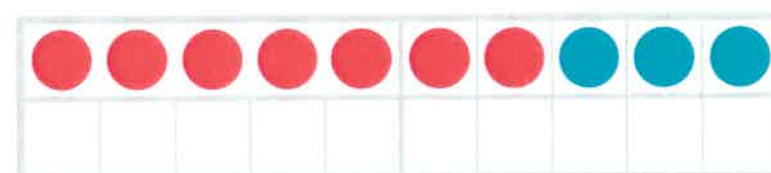
$$4 + 7 = 11$$



$$6 + 3 = 9$$

$$7 + 3 = 10$$

$$8 + 3 = 11$$

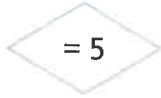


1–3 Einfache Aufgaben in Beziehung zu den Nachbaraufgaben setzen. 2 Besprechen, wie die Nachbaraufgabe hergeleitet werden kann. Den Fünfer in 5 Einer umtauschen und davon 1 weniger ins Feld legen. Das Bild stellt die Grundlage für die Ableitung der Nachbaraufgabe dar (evtl. entsprechend geschickt von der einfachen Aufgabe aus legen).



Ich kann Plusaufgaben finden, legen, vergleichen und rechnen.

1 Einfache Aufgaben.

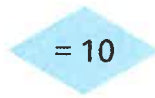


$$2 + 3 = 5$$

$$3 + 2 = 5$$

$$4 + 1 = 5$$

$$0 + 5 = 5$$



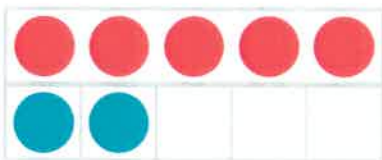
$$7 + 3 = 10$$

$$8 + 2 = 10$$

$$9 + 1 = 10$$

$$5 + 5 = 10$$

2 Einfache Aufgaben.

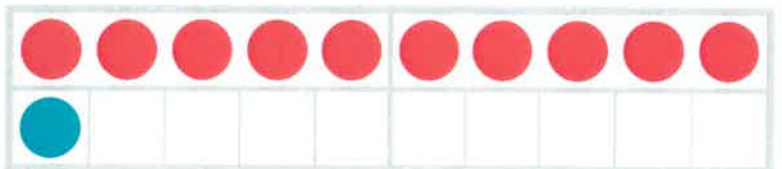


$$5 + 2 = 7$$

$$5 + 4 = 9$$

$$5 + 1 = 6$$

$$5 + 5 = 10$$



$$10 + 1 = 11$$

$$10 + 2 = 12$$

$$10 + 10 = 20$$

$$10 + 5 = 15$$



3 mit 1

$$6 + 1 = 7$$

$$2 + 1 = 3$$

$$8 + 1 = 9$$

$$0 + 1 = 1$$

$$1 + 3 = 4$$

$$1 + 7 = 8$$



$$2 + 2 = 4$$

$$4 + 4 = 8$$

$$5 + 5 = 10$$

$$0 + 0 = 0$$

$$1 + 1 = 2$$

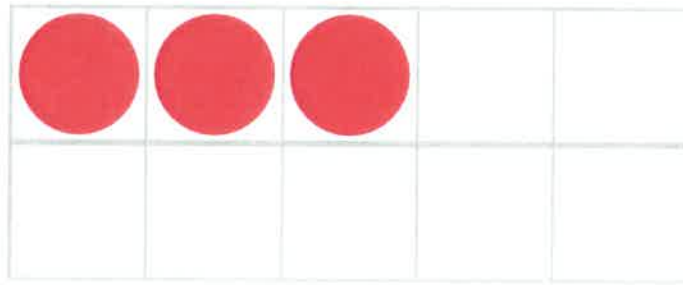
$$3 + 3 = 6$$



Forschen und Finden: Schöne Päckchen

1 Immer 2 mehr. Lege und rechne.

$3 + 1 = 4$
 $3 + 3 = 6$
 $3 + 5 = 8$
 $3 + 7 = 10$



2 Male und rechne.

$2 + 1 = 3$



$2 + 3 = 5$



$2 + 5 = 7$



$2 + 7 = 9$



3 Lege und rechne.

$1 + 2 = 3$	$2 + 2 = 4$	$1 + 2 = 3$	$5 + 5 = 10$
$3 + 2 = 5$	$2 + 3 = 5$	$1 + 4 = 5$	$4 + 5 = 9$
$5 + 2 = 7$	$2 + 4 = 6$	$1 + 6 = 7$	$3 + 5 = 8$
$7 + 2 = 9$	$2 + 5 = 7$	$1 + 8 = 9$	$2 + 5 = 7$

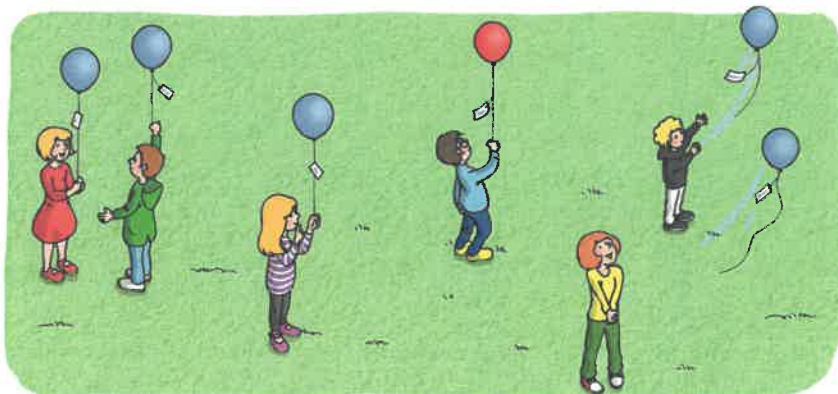
4 $1 + 2 = 3$	$3 + 7 = 10$	$0 + 10 = 10$	$3 + 1 = 4$
$2 + 3 = 5$	$4 + 6 = 10$	$2 + 8 = 10$	$4 + 2 = 6$
$3 + 4 = 7$	$5 + 5 = 10$	$4 + 6 = 10$	$5 + 3 = 8$
$4 + 5 = 9$	$6 + 4 = 10$	$6 + 4 = 10$	$6 + 4 = 10$



Minusaufgaben in der Umwelt

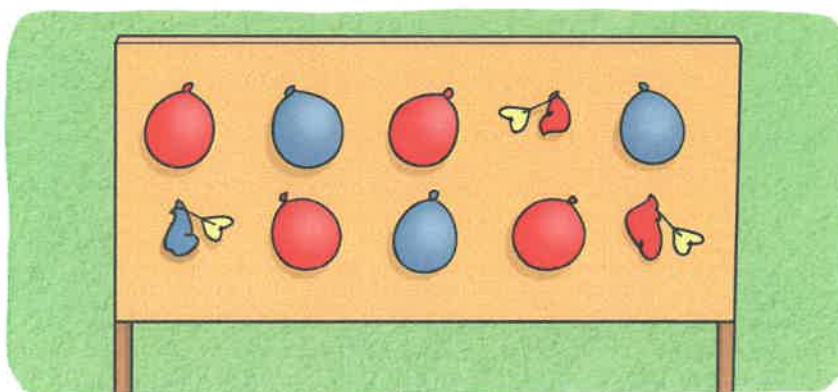
1 Finde Minusaufgaben. Erzähle: Was passiert?

Beispiele



$$5-2$$

$$6-1$$



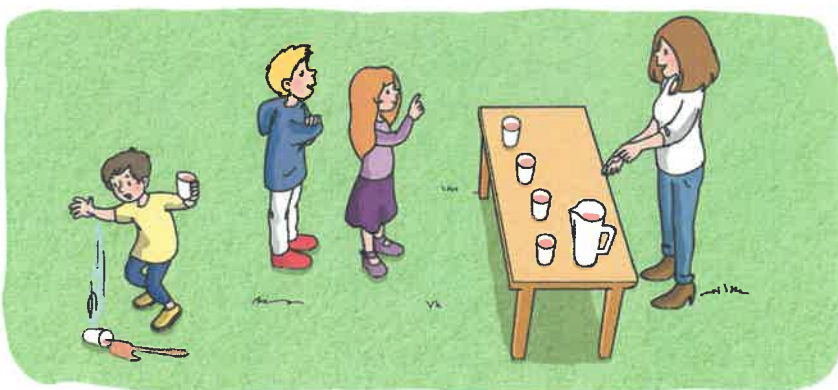
$$10-3$$

$$10-4$$



$$6-2$$

$$7-2$$



$$3-1$$

$$6-1$$

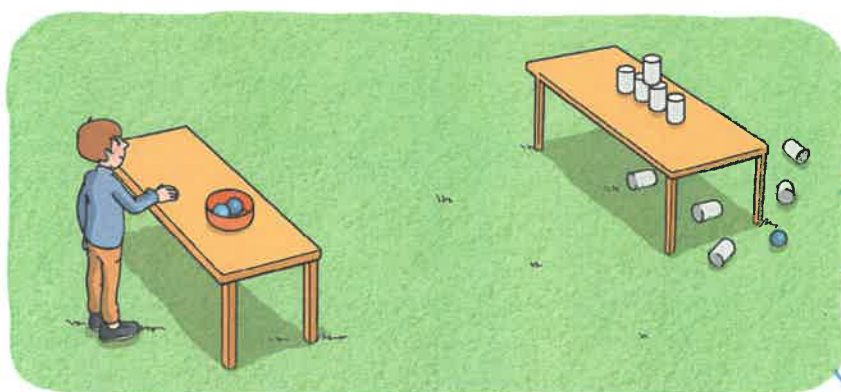


Minusaufgaben in der Umwelt

1 Welche Aufgaben passen zum Bild?

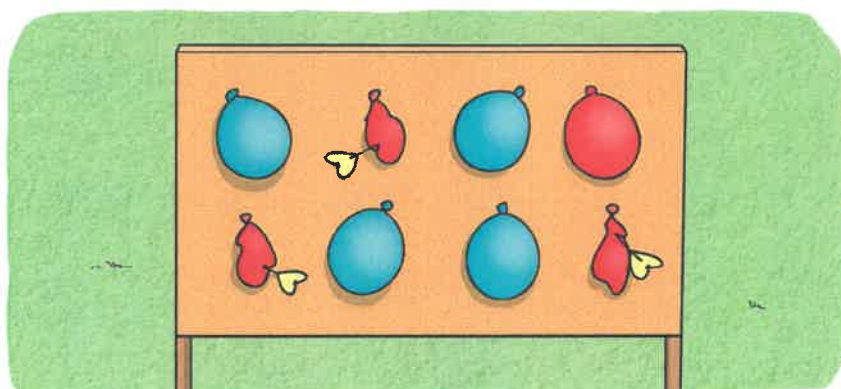


$$7 - 2$$



$$3 - 1$$

$$5 - 2$$



$$8 - 3$$

$$10 - 5$$



$$6 - 2$$

$$4 - 3$$

$$3 - 2$$

1 Passende Terme zum Bild zuordnen. Mehrere Deutungen sind möglich. Die Kinder können auch mit Stiften die gefundenen Gruppen einkreisen und die Zahlen entsprechend farblich markieren.



Minusaufgaben am Zehnerfeld

1 Wegnehmen.

$$10 - 3 = 7$$



$$10 - 1 = 9$$



$$10 - 7 = 3$$



$$5 - 1 = 4$$



$$5 - 4 = 1$$



2 Abdecken.

$$8 - 3 = 5$$



$$8 - 5 = 3$$



$$6 - 5 = 1$$



$$6 - 2 = 4$$



Plus und Minus: Umkehraufgaben

1 Dazulegen und Wegnehmen.

$7 + 3 = 10$



$10 - 3 = 7$

$9 + 1 = 10$



$10 - 1 = 9$

$5 + 2 = 7$



$7 - 2 = 5$

$3 + 4 = 7$



$7 - 4 = 3$

$4 + 1 = 5$



$5 - 1 = 4$

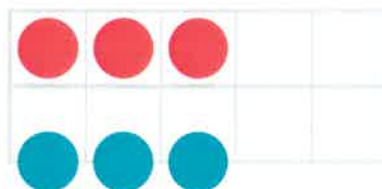
$1 + 4 = 5$



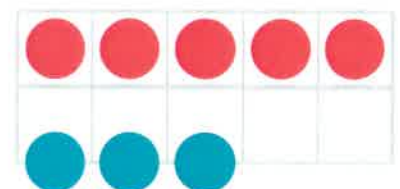
$5 - 4 = 1$

2 Dazulegen und Wegnehmen.

$3 + 3 = 6$



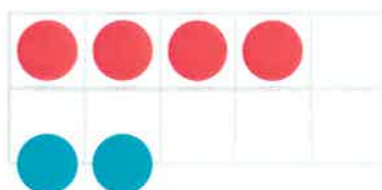
$5 + 3 = 8$



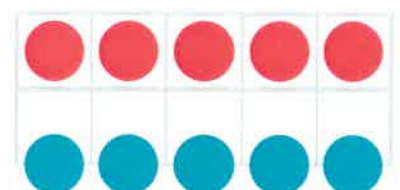
$6 - 3 = 3$

$8 - 3 = 5$

$4 + 2 = 6$



$5 + 5 = 10$



$6 - 2 = 4$

$10 - 5 = 5$



Einfache Minusaufgaben

1 Lege, male und rechne.



$5 - 2 = 3$



$5 - 1 = 4$



$5 - 3 = 2$



$5 - 4 = 1$



2 Lege, male und rechne.



$10 - 2 = 8$



$10 - 5 = 5$



$10 - 9 = 1$



$10 - 3 = 7$



$10 - 0 = 10$



3 Rechne.

$5 - 1 = 4$

$5 - 5 = 0$

$10 - 2 = 8$

$10 - 1 = 9$

$5 - 2 = 3$

$5 - 0 = 5$

$10 - 4 = 6$

$10 - 9 = 1$

$5 - 3 = 2$

$10 - 5 = 5$

$10 - 6 = 4$

$10 - 7 = 3$

$5 - 4 = 1$

$10 - 10 = 0$

$10 - 8 = 2$

$10 - 3 = 7$

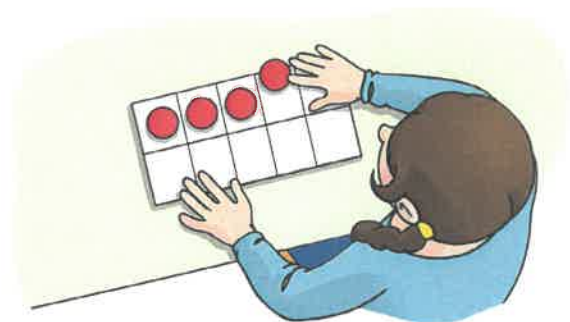
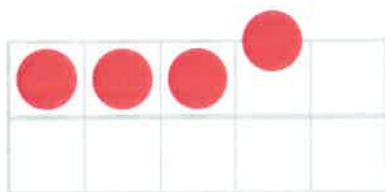


Einfache Minusaufgaben

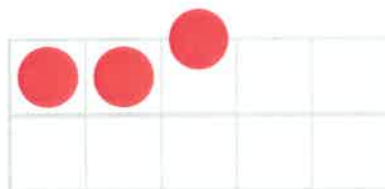
1 Lege, nimm weg und rechne.



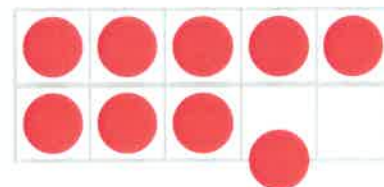
$$4 - 1 = 3$$



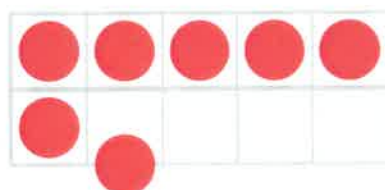
$$3 - 1 = 2$$



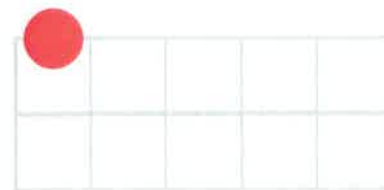
$$9 - 1 = 8$$



$$7 - 1 = 6$$



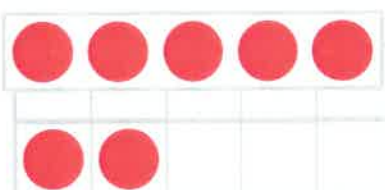
$$1 - 1 = 0$$



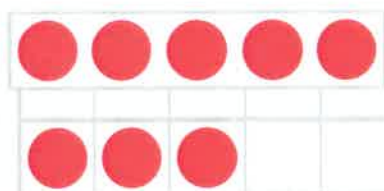
2 Lege, nimm weg und rechne.



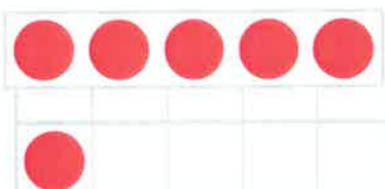
$$7 - 5 = 2$$



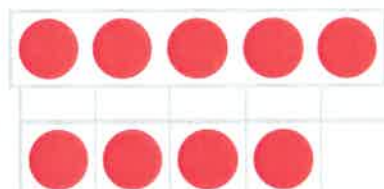
$$8 - 5 = 3$$



$$6 - 5 = 1$$



$$9 - 5 = 4$$



3 Rechne.

$$6 - 1 = 5$$

$$10 - 1 = 9$$

$$10 - 5 = 5$$

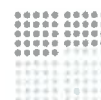
$$9 - 5 = 4$$

$$4 - 1 = 3$$

$$7 - 1 = 6$$

$$5 - 5 = 0$$

$$8 - 5 = 3$$



Einfache Minusaufgaben

1 Lege und rechne.



$$6 - 5 = 1$$



$$5 - 4 = 1$$



$$4 - 3 = 1$$



$$8 - 7 = 1$$



2 Lege und rechne.



$$8 - 3 = 5$$



$$7 - 2 = 5$$



$$9 - 4 = 5$$



$$10 - 5 = 5$$



3 Rechne.

$$10 - 9 = 1$$

$$7 - 6 = 1$$

$$7 - 2 = 5$$

$$10 - 5 = 5$$

$$9 - 8 = 1$$

$$1 - 0 = 1$$

$$6 - 1 = 5$$

$$5 - 0 = 5$$



Schwierige Minusaufgaben

1 Immer eine Nachbaraufgabe.

$$8 - 1 = 7$$

$$8 - 2 = 6$$



$$4 - 1 = 3$$

$$4 - 2 = 2$$



$$9 - 1 = 8$$

$$9 - 2 = 7$$



2 Immer eine Nachbaraufgabe.

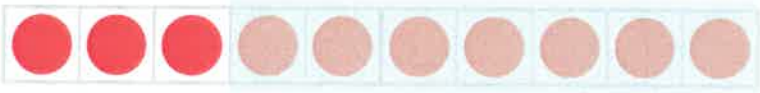
$$10 - 3 = 7$$

$$9 - 3 = 6$$



$$10 - 7 = 3$$

$$9 - 7 = 2$$

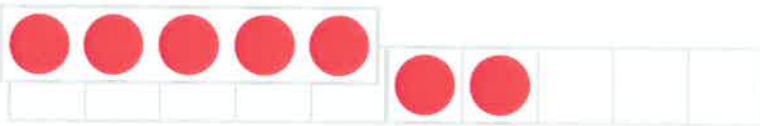


3 Immer zwei Nachbaraufgaben.

$$7 - 4 = 3$$

$$7 - 5 = 2$$

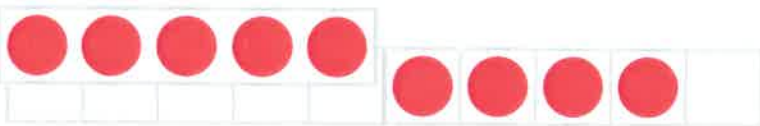
$$7 - 6 = 1$$



$$9 - 4 = 5$$

$$9 - 5 = 4$$

$$9 - 6 = 3$$



$$8 - 4 = 4$$

$$8 - 5 = 3$$

$$8 - 6 = 2$$

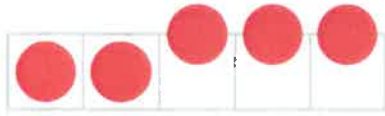


1–3 Einfache Aufgaben in Beziehung zu den Nachbaraufgaben setzen. 3 Besprechen, wie die Nachbaraufgabe hergeleitet werden kann: a) Fünfer weg, 1 Einer hinzu oder b) Fünfer in 5 Einer umtauschen und davon 4 weg (evtl. entsprechend geschickt von der einfachen Aufgabe aus legen).



Ich kann Minusaufgaben finden, legen, vergleichen und rechnen.

1 Einfache Aufgaben.



$$5 - 3 = 2$$

$$5 - 1 = 4$$

$$5 - 2 = 3$$

$$5 - 5 = 0$$



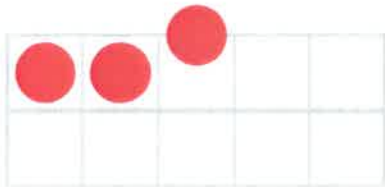
$$10 - 3 = 7$$

$$10 - 4 = 6$$

$$10 - 5 = 5$$

$$10 - 9 = 1$$

2 Einfache Aufgaben.

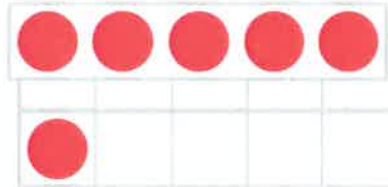


$$3 - 1 = 2$$

$$6 - 1 = 5$$

$$4 - 1 = 3$$

$$8 - 1 = 7$$



$$6 - 5 = 1$$

$$9 - 5 = 4$$

$$8 - 5 = 3$$

$$7 - 5 = 2$$

3 Einfache Aufgaben.



$$6 - 5 = 1$$

$$9 - 8 = 1$$

$$8 - 7 = 1$$

$$7 - 6 = 1$$

$$6 - 1 = 5$$

$$9 - 4 = 5$$

$$8 - 3 = 5$$

$$7 - 2 = 5$$

$$10 - 9 = 1$$

$$5 - 4 = 1$$

$$2 - 1 = 1$$

$$1 - 0 = 1$$



Forschen und Finden: Schöne Päckchen

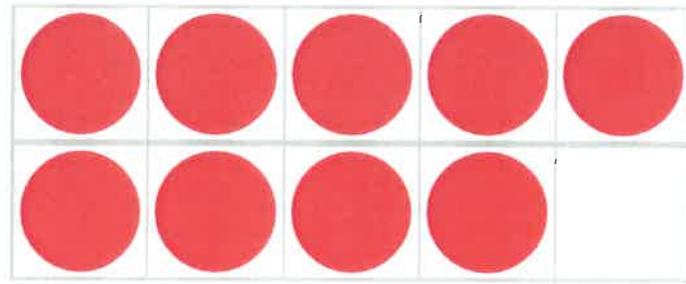
1 Immer 2 weniger. Decke ab und rechne.

 $9 - 1 = 8$

$9 - 3 = 6$

$9 - 5 = 4$

$9 - 7 = 2$

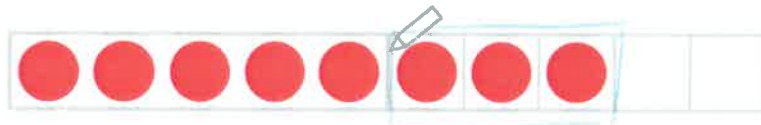


2 Male und rechne.

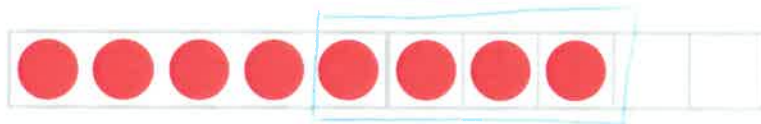
$8 - 2 = 6$



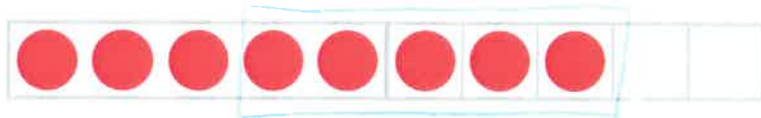
$8 - 3 = 5$



$8 - 4 = 4$



$8 - 5 = 3$



3 Lege und rechne.

 $10 - 2 = 8$

$7 - 2 = 5$

$10 - 2 = 8$

$5 - 5 = 0$

$9 - 2 = 7$

$7 - 3 = 4$

$10 - 4 = 6$

$6 - 5 = 1$

$8 - 2 = 6$

$7 - 4 = 3$

$10 - 6 = 4$

$7 - 5 = 2$

$7 - 2 = 5$

$7 - 5 = 2$

$10 - 8 = 2$

$8 - 5 = 3$

4 $2 - 1 = 1$

$9 - 1 = 8$

$6 - 0 = 6$

$3 - 1 = 2$

$3 - 2 = 1$

$8 - 2 = 6$

$7 - 2 = 5$

$4 - 2 = 2$

$4 - 3 = 1$

$7 - 3 = 4$

$8 - 4 = 4$

$5 - 3 = 2$

$5 - 4 = 1$

$6 - 4 = 2$

$9 - 6 = 3$

$6 - 4 = 2$



Erzählen und Rechnen

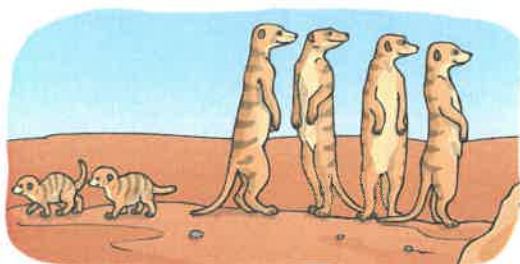
1 Welche Aufgaben passen zum Bild?



$$3 - 2$$



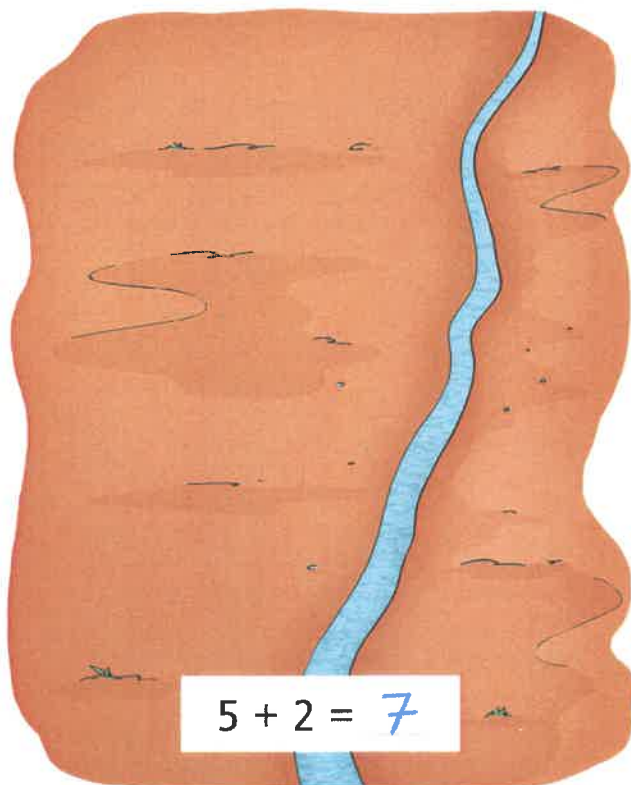
$$2 + 1$$



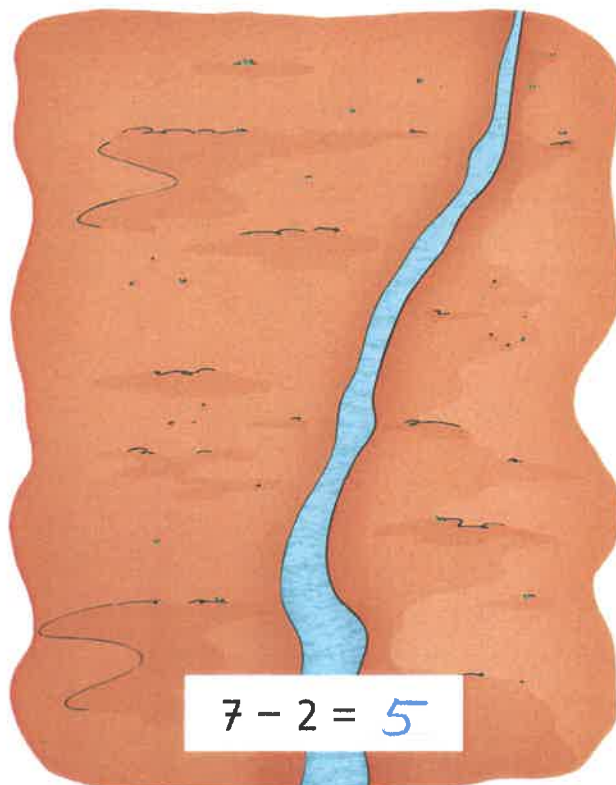
$$2 + 4$$

$$6 - 2$$

2



$$5 + 2 = 7$$



$$7 - 2 = 5$$



Erzählen und Rechnen

1 Finde Aufgaben zum Bild.



Beispiele

$$6 + 3 = 9$$

$$9 - 3 = 6$$



$$5 + 2 = 7$$

$$7 - 2 = 5$$

2

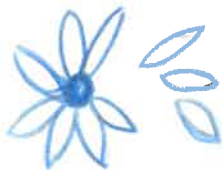
$$5 - 2 = 3$$



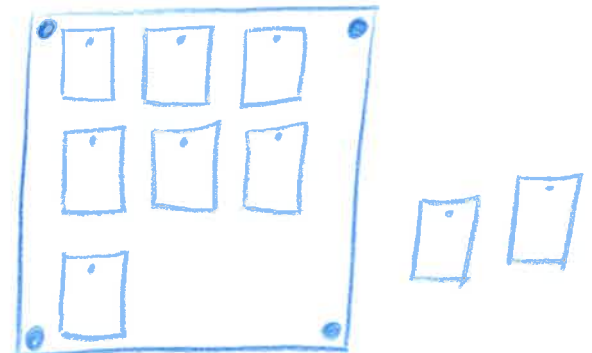
$$3 + 2 =$$



$$10 - 3 = 7$$

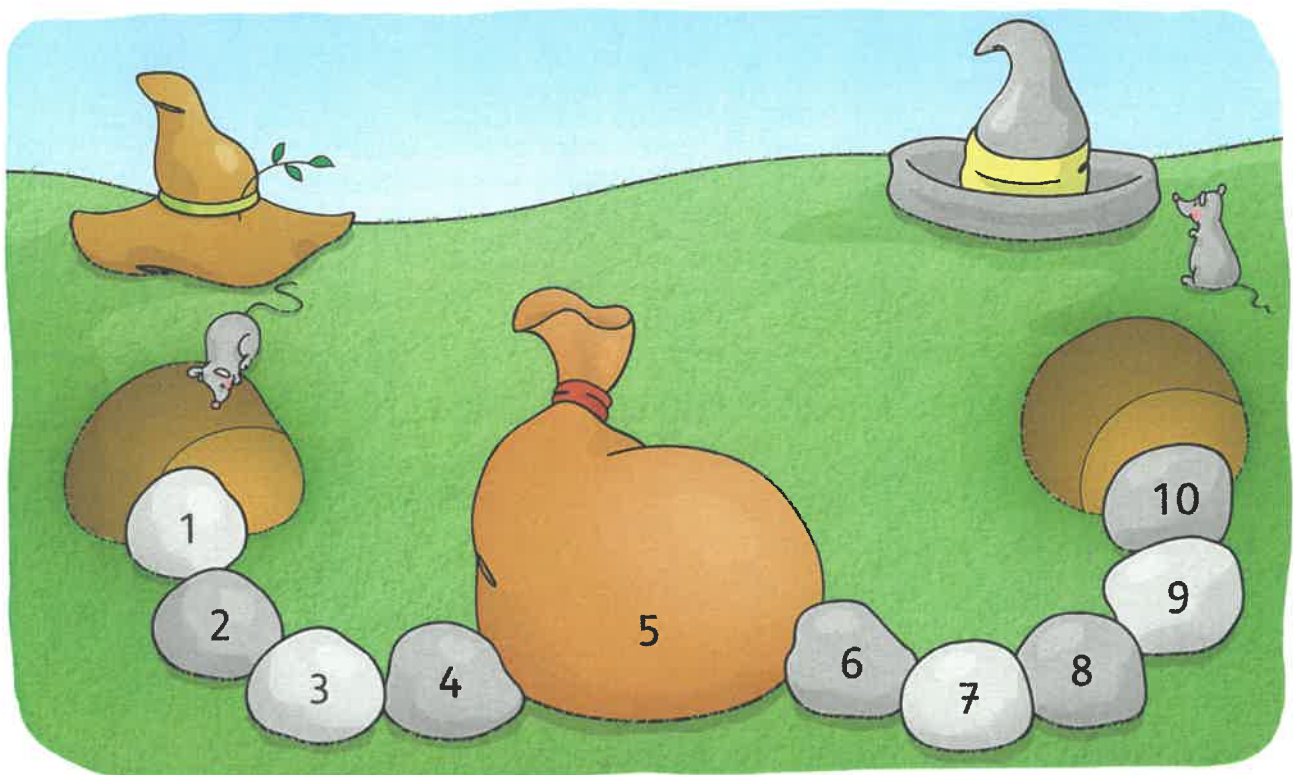


$$7 + 2 = 9$$



Plus und Minus

1 Spielt Räuber und Goldschatz. Schreibt die Aufgaben auf.



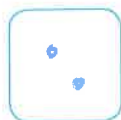
Beispielverlauf



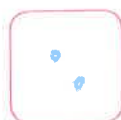
$$5 + 3 = 8$$



$$8 - 3 = 5$$



$$5 + 2 = 7$$



$$7 - 2 = 5$$



$$5 + 3 = 8$$



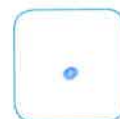
$$8 - 3 = 5$$



$$5 + 2 = 7$$



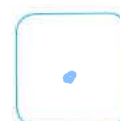
$$7 - 3 = 4$$



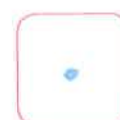
$$4 + 1 = 5$$



$$5 - 2 = 3$$



$$3 + 1 = 4$$



$$4 - 1 = 3$$



Plus und Minus

1 Wo liegt der Schatz?



$5 + 1 = 6$



$6 - 2 = 4$



$4 + 3 = 7$



$7 - 1 = 6$



$6 + 1 = 7$



$7 - 3 = 4$



$5 + 2 = 7$



$7 - 1 = 6$



$6 + 1 = 7$



$7 - 3 = 4$



$4 + 1 = 5$



$5 - 3 = 2$



2 Umkehraufgaben.



$5 + 1 = 6$



$6 - 1 = 5$



$7 + 2 = 9$



$9 - 2 = 7$



$4 + 3 = 7$



$7 - 3 = 4$



$3 + 1 = 4$



$4 - 1 = 3$



$2 + 2 = 4$



$4 - 2 = 2$



$5 + 3 = 8$



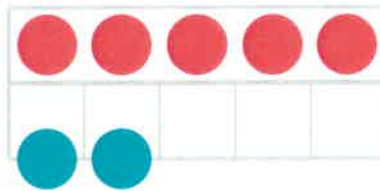
$8 - 3 = 5$



Umkehraufgaben

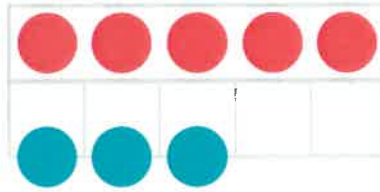
1 Plus und minus: Dazu und weg.

$$5 + 2 = 7$$



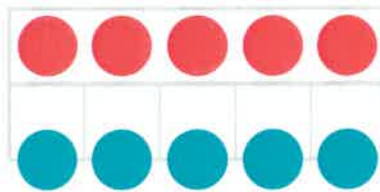
$$7 - 2 = 5$$

$$5 + 3 = 8$$



$$8 - 3 = 5$$

$$5 + 5 = 10$$



$$10 - 5 = 5$$

2 Immer plus und minus.

$$1 + 4 = 5$$

$$5 - 4 = 1$$



$$3 + 4 = 7$$

$$7 - 4 = 3$$



$$4 + 1 = 5$$

$$5 - 1 = 4$$



Beispiele

$$2 + 1 = 3$$

$$3 - 1 = 2$$



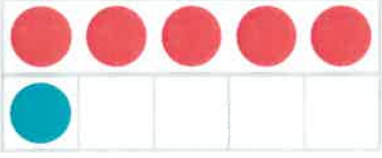
$$5 + 2 = 7$$

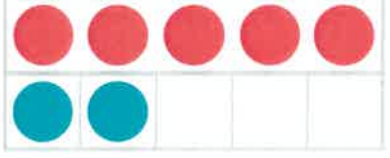
$$7 - 2 = 5$$

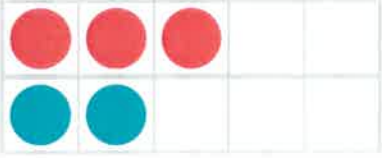


Tauschaufgaben

1 Finde die Tauschaufgaben.

$$\begin{array}{l} 5 + 1 = 6 \\ 1 + 5 = 6 \end{array}$$


$$\begin{array}{l} 5 + 2 = 7 \\ 2 + 5 = 7 \end{array}$$


$$\begin{array}{l} 3 + 2 = 5 \\ 2 + 3 = 5 \end{array}$$


$$\begin{array}{l} 4 + 3 = 7 \\ 3 + 4 = 7 \end{array}$$


2 Tauschaufgaben.

$$\begin{array}{l} 6 + 2 = 8 \\ 2 + 6 = 8 \end{array}$$



$$\begin{array}{l} 4 + 5 = 9 \\ 5 + 4 = 9 \end{array}$$



$$\begin{array}{l} 6 + 3 = 9 \\ 3 + 6 = 9 \end{array}$$



Beispiel

$$\begin{array}{l} 3 + 5 = 8 \\ 5 + 3 = 8 \end{array}$$



3 Welche Aufgabe findest du einfacher? Kreuze an.

☒ $6 + 2 = 8$

☐ $1 + 8 = 9$

☒ $5 + 1 = 6$

☐ $2 + 6 = 8$

☒ $8 + 1 = 9$

☐ $1 + 5 = 6$

☐ $2 + 7 = 9$

☐ $1 + 6 = 7$

☐ $2 + 8 = 10$

☒ $7 + 2 = 9$

☒ $6 + 1 = 7$

☒ $8 + 2 = 10$

Ergänzen

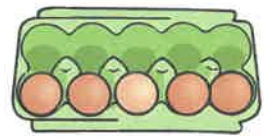
1 Wie viele fehlen?



$$3 + 1 = 4$$



$$4 + 2 = 6$$



$$5 + 5 = 10$$

2 Ergänze. Wie viele fehlen?



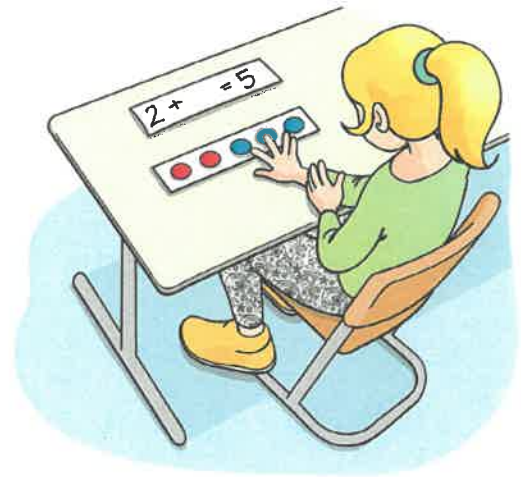
$$2 + 3 = 5$$



$$2 + 2 = 4$$



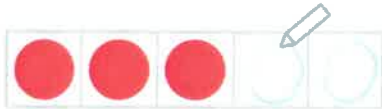
$$2 + 1 = 3$$



3 Ergänze.



$$3 + 2 = 5$$



$$4 + 1 = 5$$



$$1 + 4 = 5$$



$$2 + 3 = 5$$



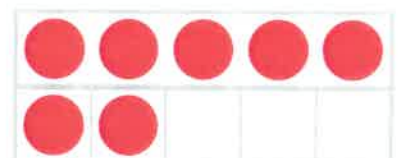
4 Ergänze.



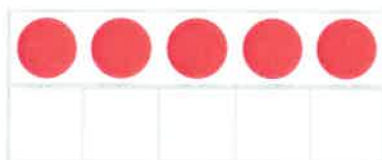
$$8 + 2 = 10$$



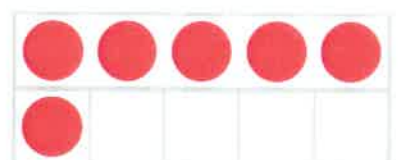
$$7 + 3 = 10$$



$$5 + 5 = 10$$



$$6 + 4 = 10$$



Ergänzen

1 Was fällt dir auf?

$2 + 5 = 7$



$3 + 5 = 8$



$4 + 5 = 9$



$5 + 5 = 10$



2 Was fällt dir auf?

$2 + 8 = 10$



$8 + 2 = 10$



$7 + 3 = 10$



$3 + 7 = 10$



3 Was fällt dir auf?

$4 + 1 = 5$

$9 + 1 = 10$

$5 + 5 = 10$

$3 + 2 = 5$

$8 + 2 = 10$

$4 + 6 = 10$

$2 + 3 = 5$

$7 + 3 = 10$

$3 + 7 = 10$

$2 + 2 = 4$

$8 + 2 = 10$

$7 + 3 = 10$

$3 + 3 = 6$

$6 + 4 = 10$

$5 + 5 = 10$

$4 + 4 = 8$

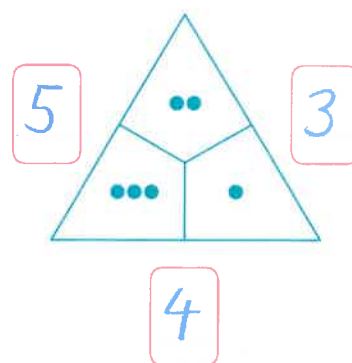
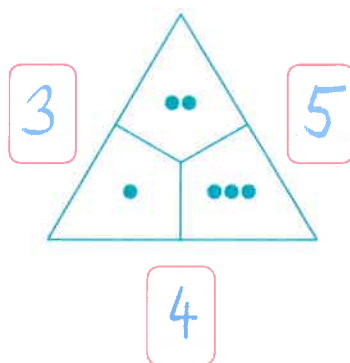
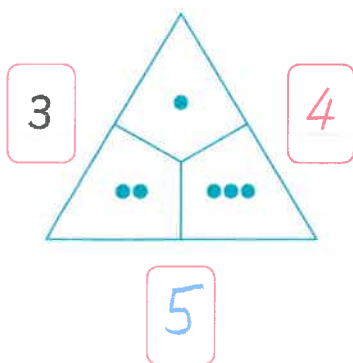
$4 + 6 = 10$

$3 + 7 = 10$

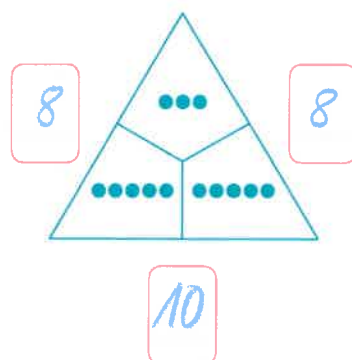
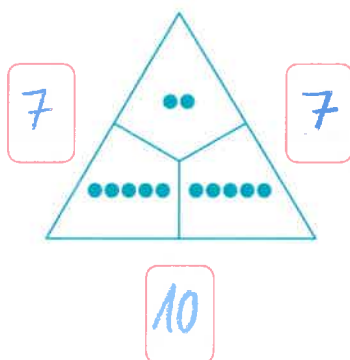
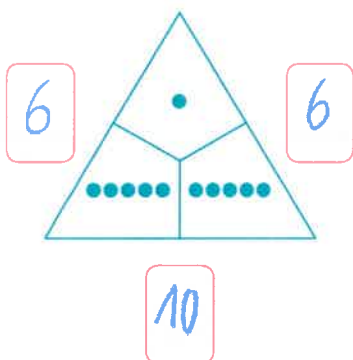


Rechendreiecke

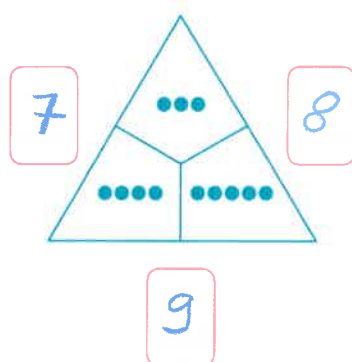
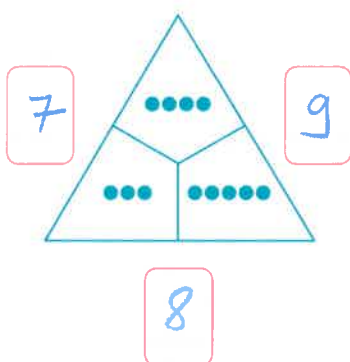
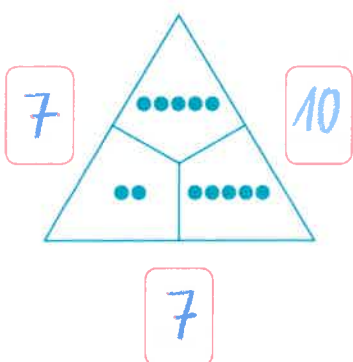
1



2

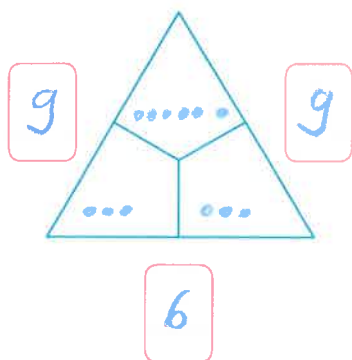
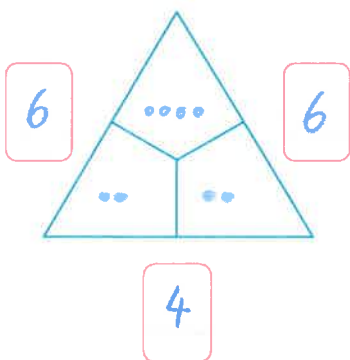
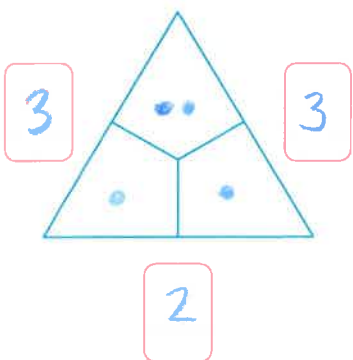


3



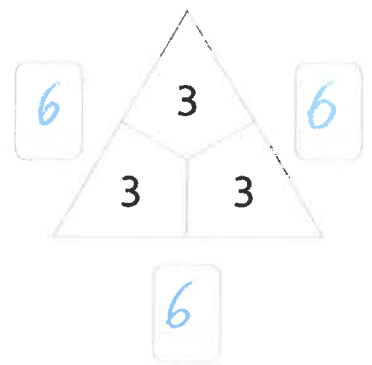
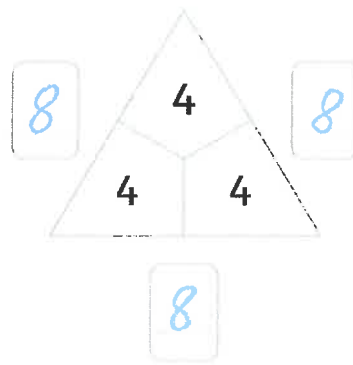
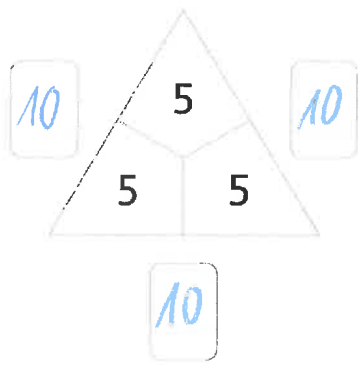
4 Finde Rechendreiecke.

Beispiele

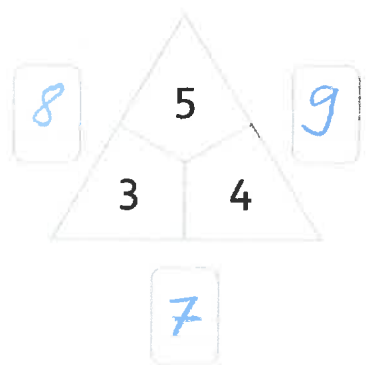
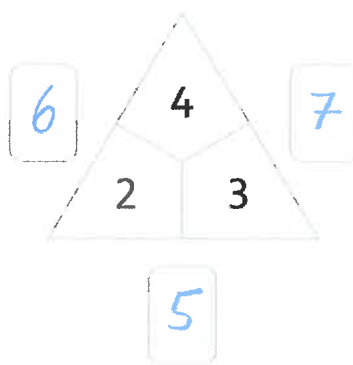
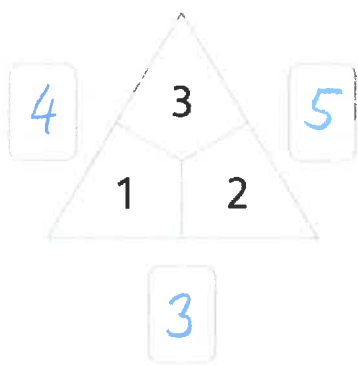


Rechendreiecke

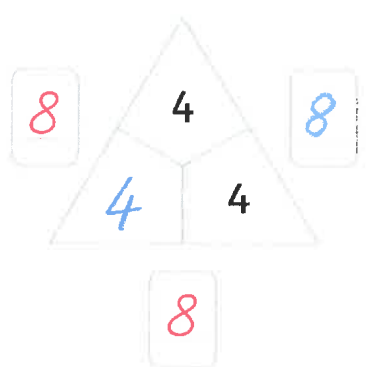
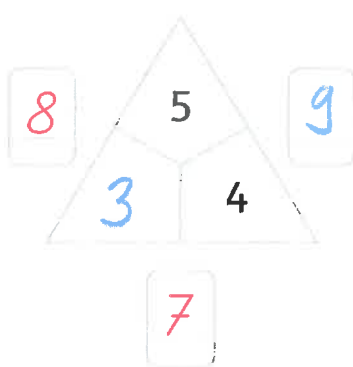
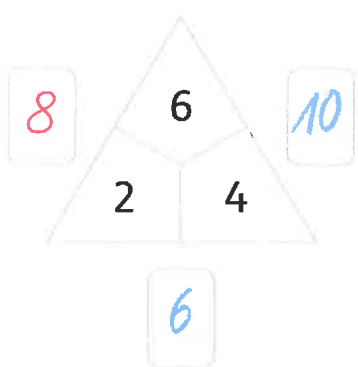
1 Rechne und vergleiche.



2

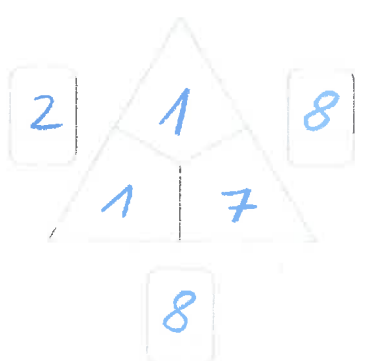
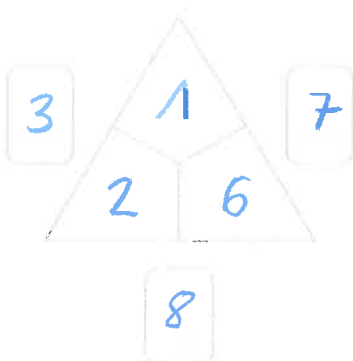
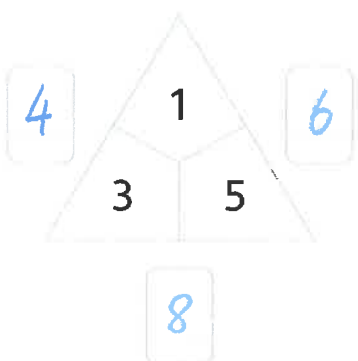


3



4 Verändere das Rechendreieck.

Beispiele



Ich kann in Bildern Plus- und Minusaufgaben erkennen, Tauschaufgaben und Umkehraufgaben bilden. Ich kann Minusaufgaben durch Ergänzen lösen.

1



Beispiele

$$4 + 1 = 5$$

$$5 - 1 = 4$$

$$3 + 1 = 4$$

$$4 - 1 = 3$$

2 Immer plus und minus.

$$4 + 3 = 7$$

$$7 - 3 = 4$$



$$5 + 4 = 9$$

$$9 - 4 = 5$$



3 Tauschaufgaben.

$$6 + 2 = 8$$

$$2 + 6 = 8$$

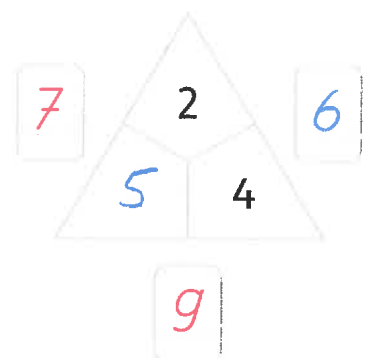
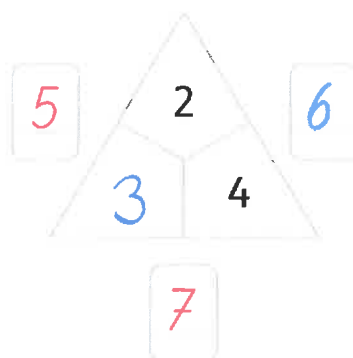
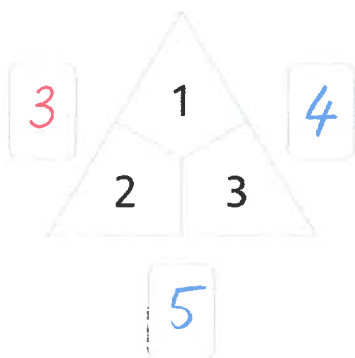


$$3 + 5 = 8$$

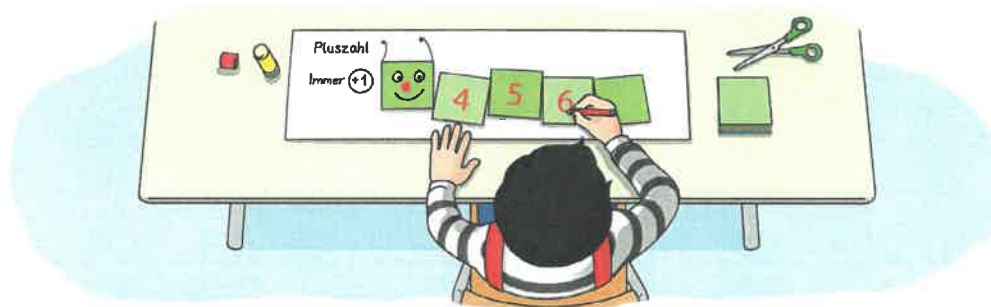
$$5 + 3 = 8$$



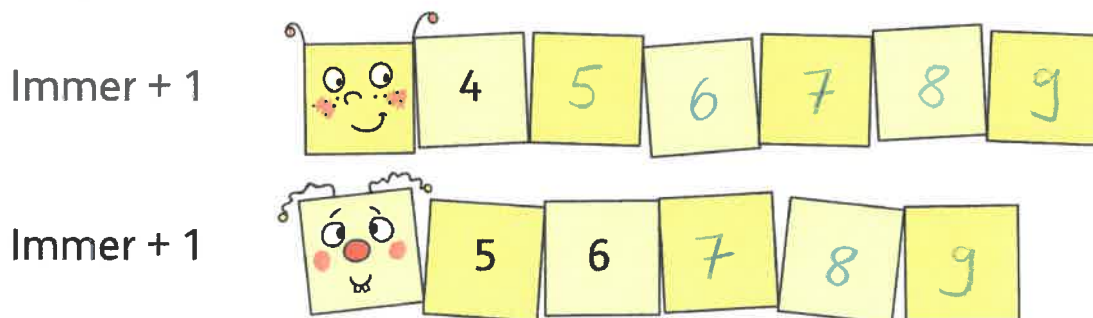
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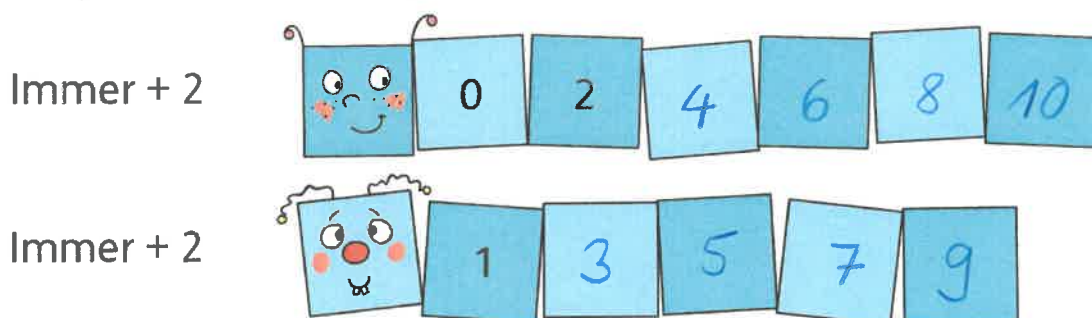
Forschen und Finden: Zahlenraupen



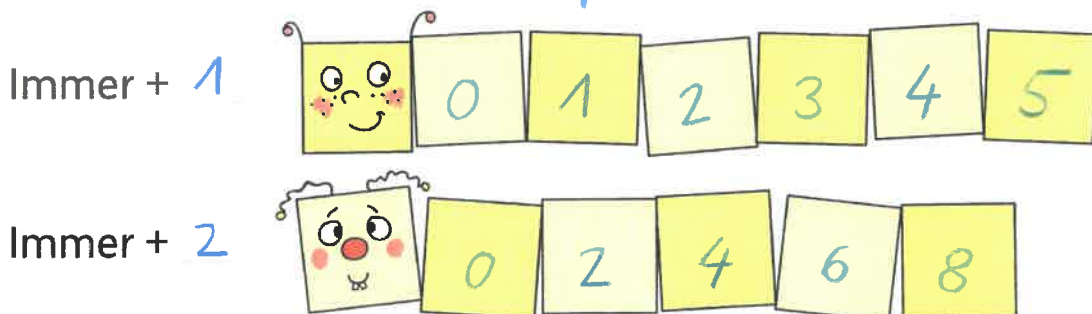
1 Vergleiche. Was fällt dir auf?



2 Vergleiche. Was fällt dir auf?



3 Finde Zahlenraupen. *Beispiele*



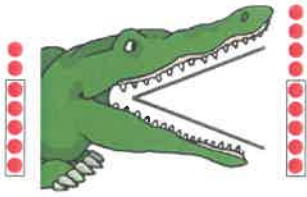
1, 2 Zahlenraupen rechnen und vergleichen, Gemeinsamkeiten und Unterschiede markieren. 3 Zahlenraupen erfinden, Lösungen ausschneiden, vergleichen und sortieren.



Kleiner, größer, gleich

kleiner als

$$7 < 9$$



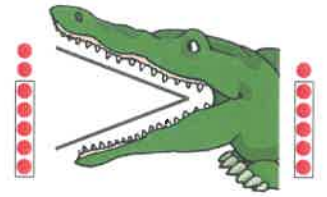
gleich

$$7 = 7$$

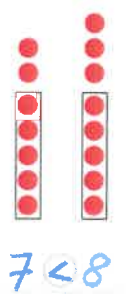
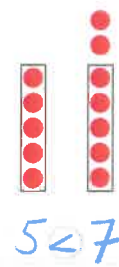
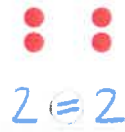
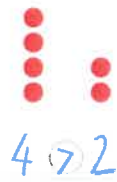
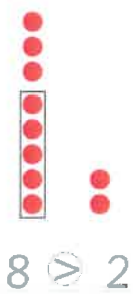


größer als

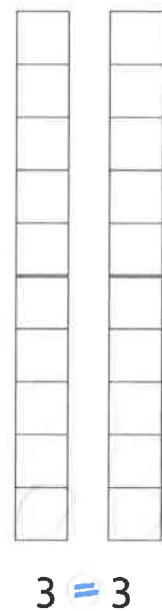
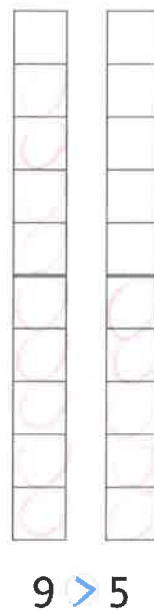
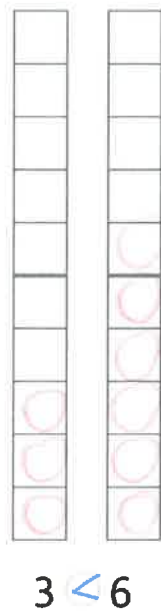
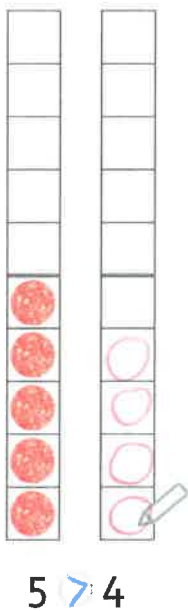
$$7 > 6$$



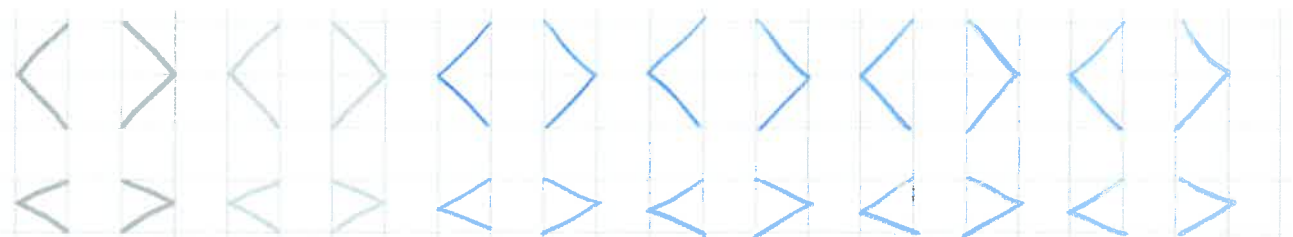
1 Vergleiche. < oder > oder =?



2



3



Kleiner, größer, gleich

1 Vergleiche immer 2 Zahlen.

1 4 5 6

$1 < 4$

$5 > 1$

$1 < 5$

$5 > 4$

$1 < 6$

$5 < 6$

$4 > 1$

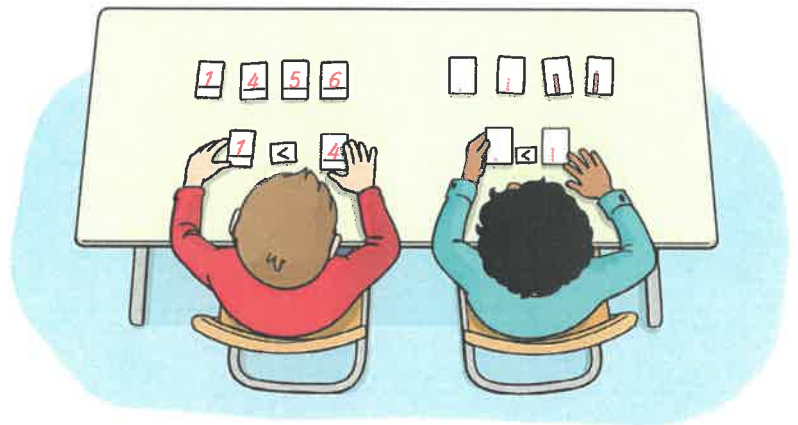
$6 > 1$

$4 < 5$

$6 > 4$

$4 < 6$

$6 > 5$



2 Vergleiche immer 2 Zahlen.

3 6 9 10

$3 < 6$

$6 > 3$

$9 > 3$

$10 > 3$

$3 < 9$

$6 < 9$

$9 > 6$

$10 > 6$

$3 < 10$

$6 < 10$

$9 < 10$

$10 > 9$

3 Vergleiche. < oder > oder = ?

$4 < 5$

$5 < 7$

$2 < 4$

$8 < 10$

$10 > 9$

$3 < 5$

$5 < 6$

$4 > 2$

$10 = 10$

$10 < 11$

$2 < 5$

$5 = 5$

$2 = 2$

$12 > 10$

$10 < 20$

4 Vergleiche. Finde passende Zahlen.

Beispiele

$1 < 5$



$5 < 6$

$2 < 5$

$5 < 7$

$4 < 5$

$5 < 15$

$0 < 7$



$7 < 8$

$2 < 7$

$7 < 10$

$3 < 7$

$7 < 17$

$0 < 4$



$4 < 14$

$1 < 4$

$4 < 15$

$2 < 4$

$4 < 16$

$4 < 6$



$6 < 7$

$3 < 6$

$6 < 8$

$2 < 6$

$6 < 9$



Gleichungen und Ungleichungen

1 < oder > oder =?



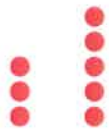
$$2 < 5$$



$$2 + 3 = 5$$



$$2 + 4 > 5$$



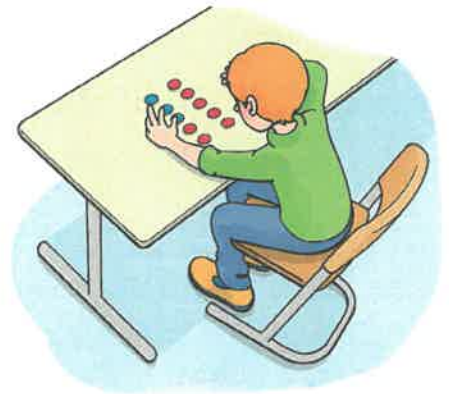
$$3 < 5$$



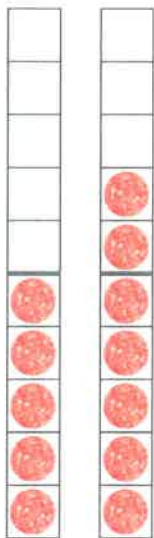
$$3 + 2 = 5$$



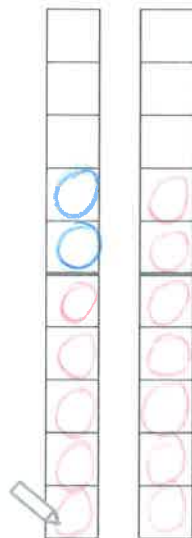
$$3 + 3 > 5$$



2



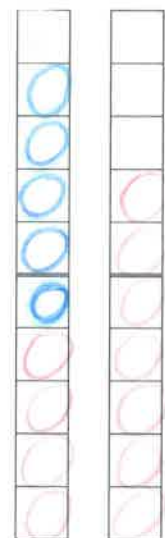
$$5 < 7$$



$$5 + 2 = 7$$



$$5 + 3 > 7$$



$$4 + 5 > 7$$

3 Vergleiche erst, mache dann gleich.

$$3 < 5$$

$$3 + 2 = 5$$

$$1 < 5$$

$$1 + 4 = 5$$

$$2 < 5$$

$$2 + 3 = 5$$

$$4 < 5$$

$$4 + 1 = 5$$

$$3 < 10$$

$$3 + 7 = 10$$

$$1 < 10$$

$$1 + 9 = 10$$

$$2 < 10$$

$$2 + 8 = 10$$

$$4 < 10$$

$$4 + 6 = 10$$



Gleichungen und Ungleichungen

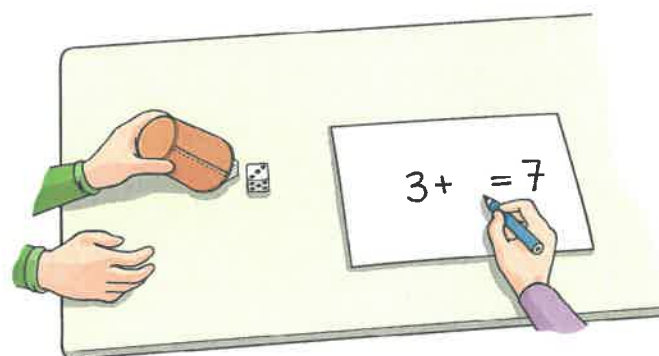
1 Immer 7. Welche Zahl passt?

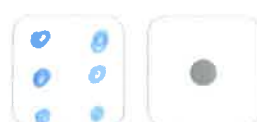

 $3 + \underline{4} = 7$


 $5 + \underline{2} = 7$


 $\underline{3} + 4 = 7$


 $6 + \underline{1} = 7$




 $\underline{6} + 1 = 7$

2 Immer 8. Welche Zahl passt?


 $3 + \underline{5} = 8$


 $6 + \underline{2} = 8$


 $5 + \underline{3} = 8$


 $2 + \underline{6} = 8$

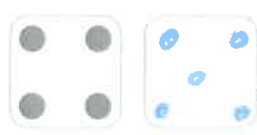
3 Welche Zahlen passen?

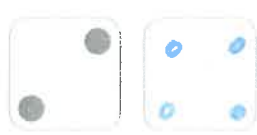

 $4 + \blacksquare < 8$
 $3, 2, 1$

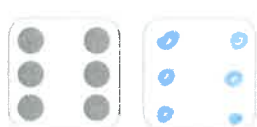

 $2 + \blacksquare < 5$
 $1, 2$


 $6 + \blacksquare < 10$
 $1, 2, 3$

Beispiele


 $4 + \blacksquare > 8$
 $5, 6$


 $2 + \blacksquare > 5$
 $4, 5, 6$

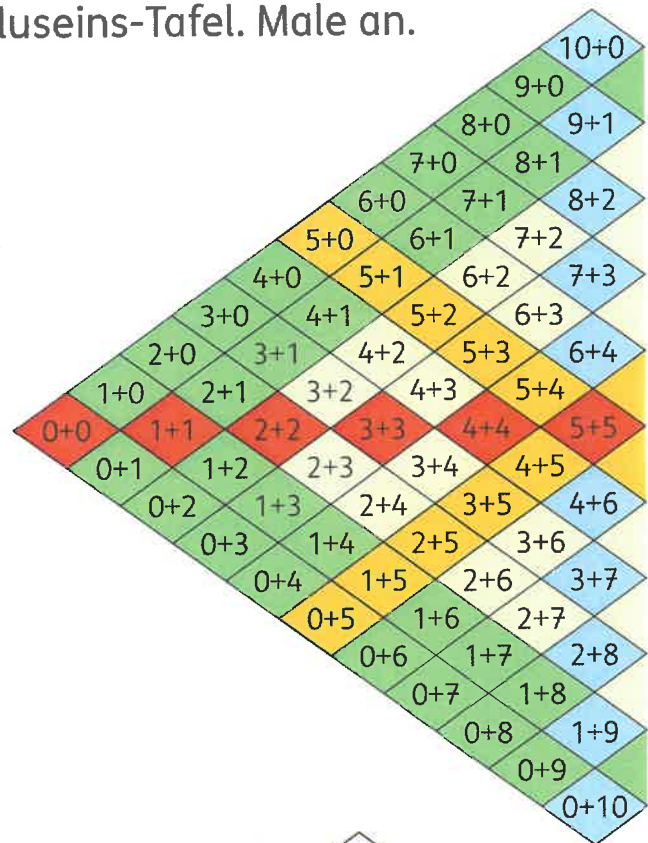
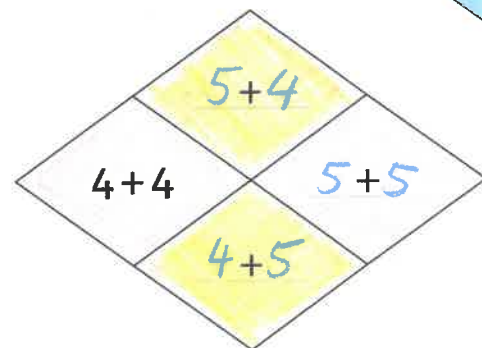
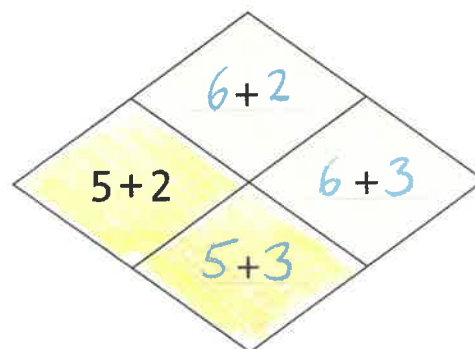
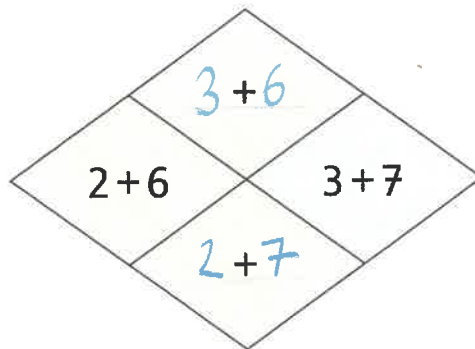
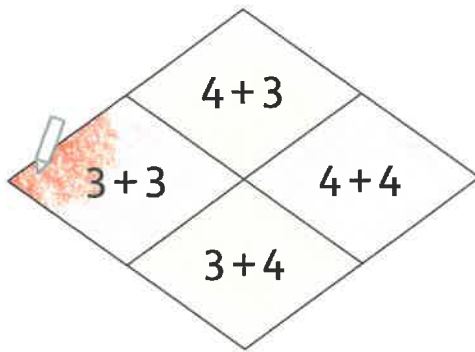

 $6 + \blacksquare > 10$
 $5, 6$

Beispiele

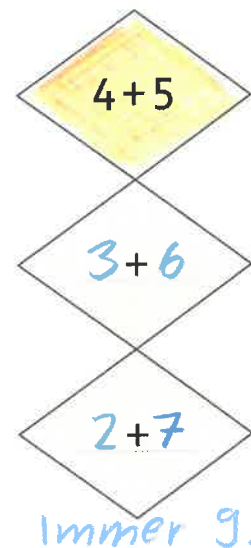
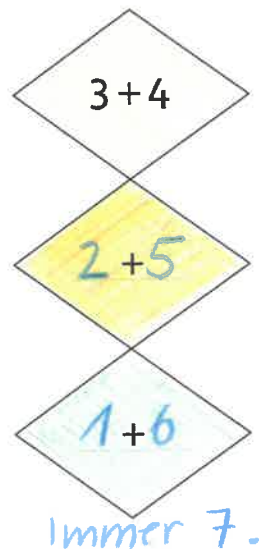
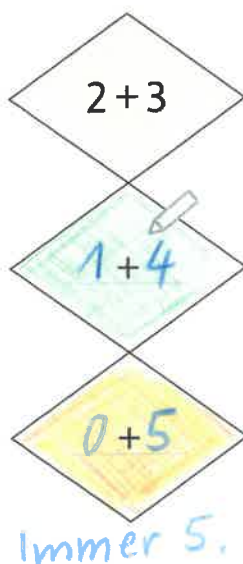


Die Einspluseins-Tafel

1 Finde die Aufgaben in der Einspluseins-Tafel. Male an.

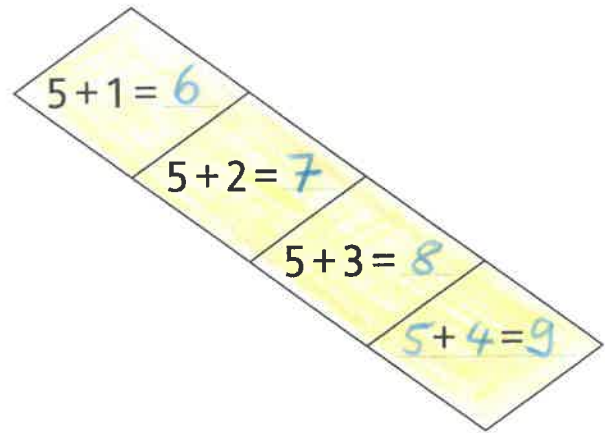
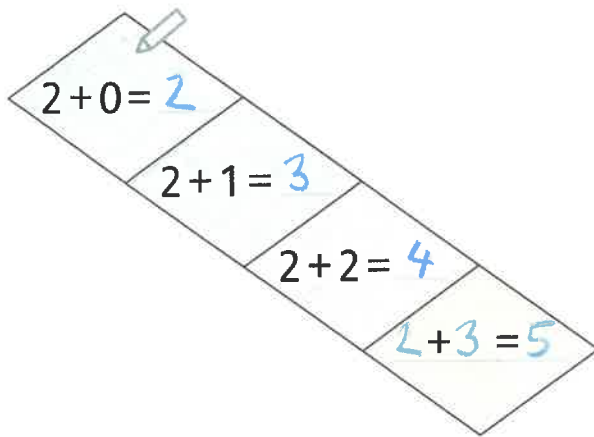


2 Finde die Aufgaben. Was fällt dir auf?

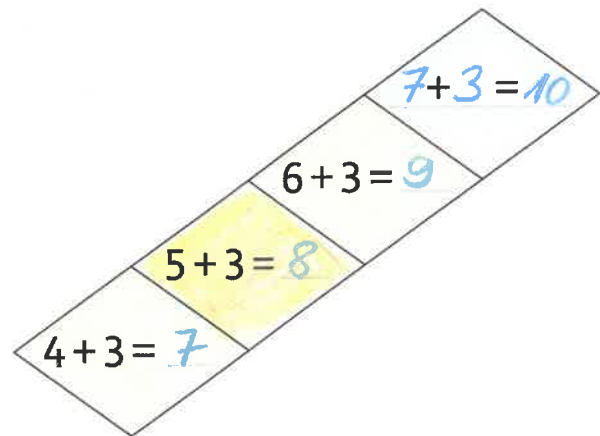
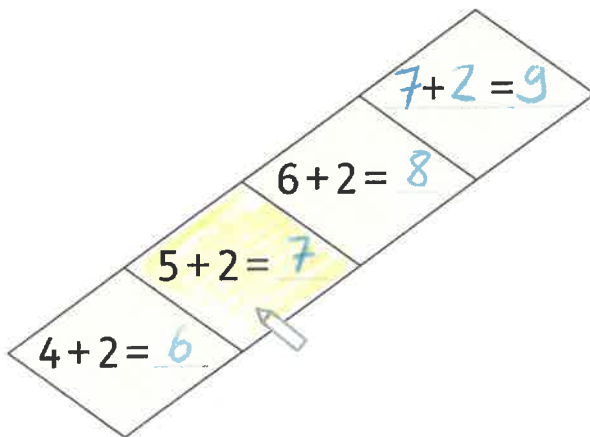


Die Einspluseins-Tafel

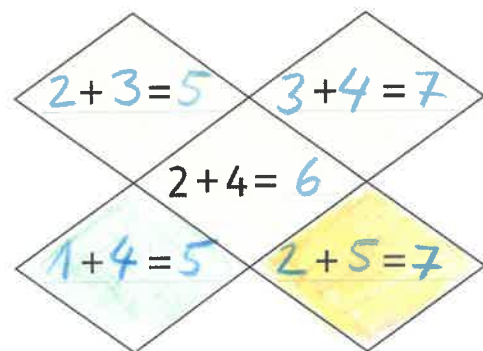
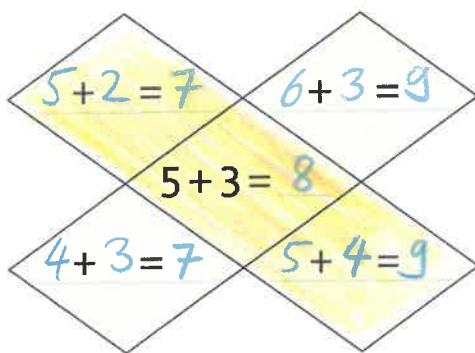
1 Finde die Aufgaben in der Einspluseins-Tafel. Male und rechne.



2 Finde die Aufgaben in der Einspluseins-Tafel. Male und rechne.



3 Finde Nachbaraufgaben.



4 Finde passende Aufgaben. *Beispiele*

$$1 + 2 < 5$$

$$1 + 3 < 5$$

$$2 + 2 < 5$$

$$1 + 4 = 5$$

$$2 + 3 = 5$$

$$0 + 5 = 5$$

$$5 + 3 > 5$$

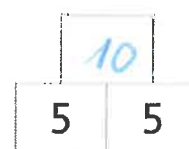
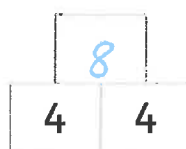
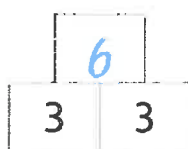
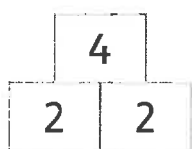
$$4 + 4 > 5$$

$$3 + 7 > 5$$

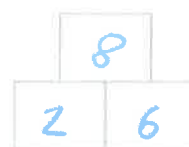
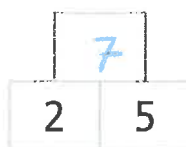
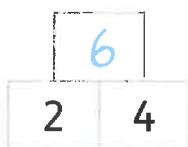
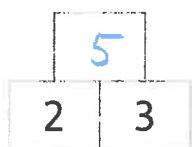


Zahlenmauern

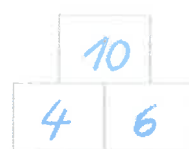
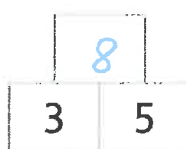
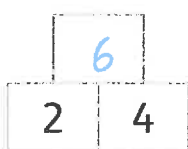
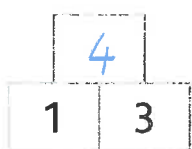
1 Vergleiche.



2



3



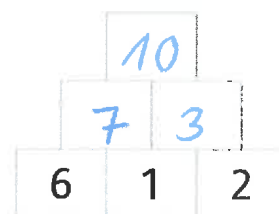
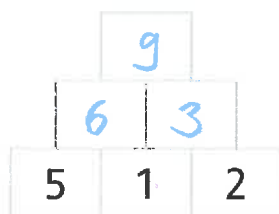
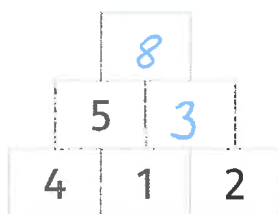
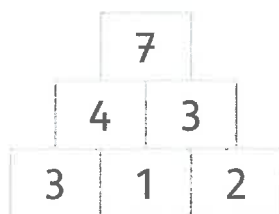
4



5

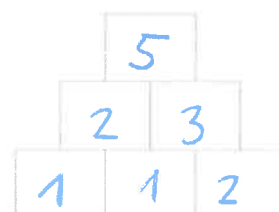
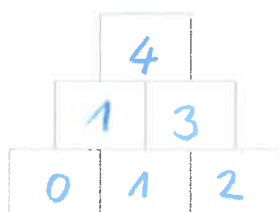
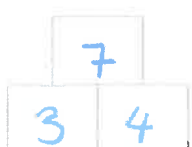


6



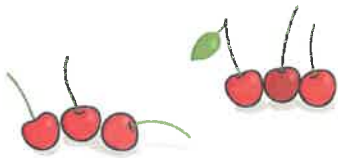
7 Finde Zahlenmauern.

Beispiele

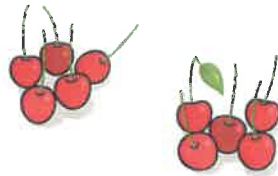


Halbieren: Gerade und ungerade Zahlen

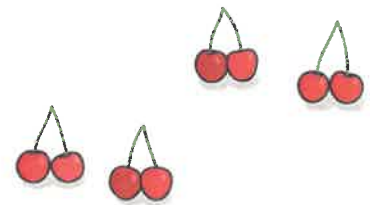
1 Halbiere.



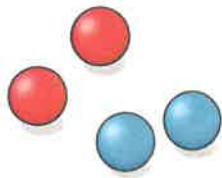
$$6 = 3 + 3$$



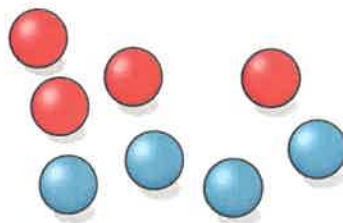
$$10 = 5 + 5$$



$$8 = 4 + 4$$



$$4 = 2 + 2$$



$$8 = 4 + 4$$

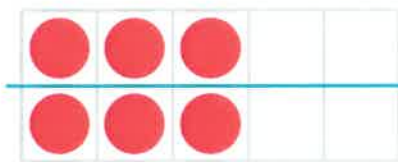


$$2 = 1 + 1$$

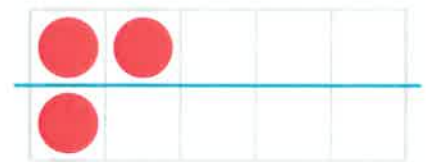
2 Welche Zahlen lassen sich halbieren? Kreuze an.



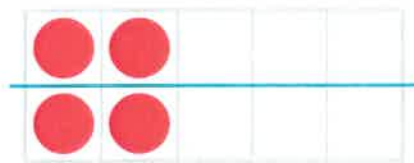
☐ $2 = 1 + 1$



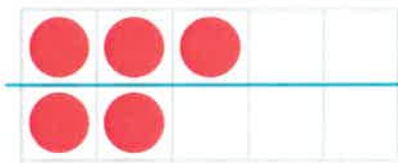
☒ $6 = 3 + 3$



☐ $3 = 2 + 1$



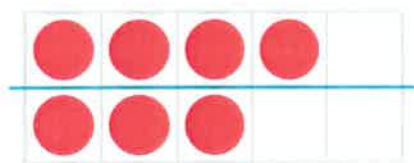
☒ $4 = 2 + 2$



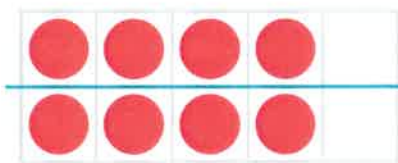
☐ $5 = 3 + 2$



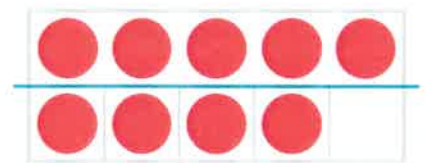
☐ $1 = 1 + 0$



☐ $7 = 4 + 3$



☒ $8 = 4 + 4$



☐ $9 = 5 + 4$



Ich kann Zahlen und Aufgaben vergleichen. Ich kann Nachbaraufgaben zum geschickten Rechnen nutzen. Ich kann Zahlen halbieren.

1 < oder > oder =?

$3 < 5$

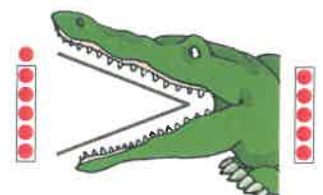
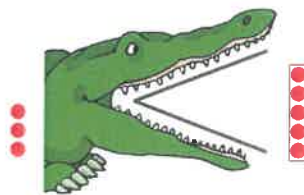
$6 < 8$

$6 > 5$

$8 = 8$

$5 = 5$

$10 > 8$



2 < oder > oder =?

$2 + 1 < 5 \quad \text{z.B. } 3 + 1 < 5$

$5 + 1 < 8 \quad \text{z.B. } 8 + 1 < 10$

$2 + 3 = 5 \quad 3 + 2 = 5$

$5 + 3 = 8 \quad 8 + 2 = 10$

$2 + 7 > 5 \quad \text{z.B. } 3 + 3 > 5$

$5 + 5 > 8 \quad \text{z.B. } 8 + 3 > 10$

3 Finde Aufgaben.

Beispiele

$2 + 7 < 7$

$2 + 7 > 7$

$0 + 7 = 7$

$3 + 4 = 7$

$2 + 3 < 7$

$4 + 4 > 7$

$1 + 6 = 7$

$4 + 3 = 7$

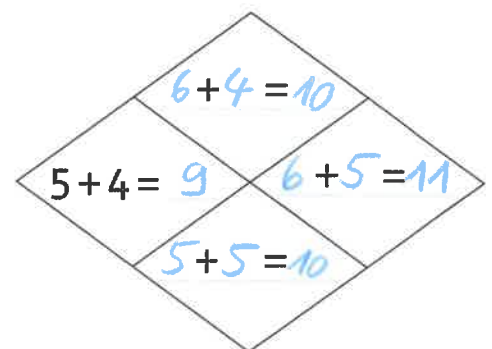
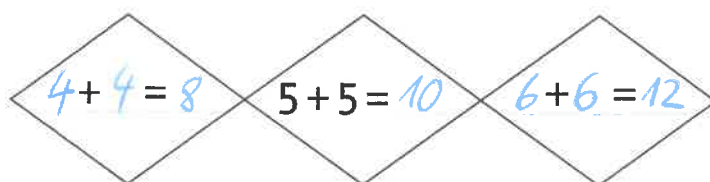
$1 + 2 < 7$

$4 + 5 > 7$

$2 + 5 = 7$

$5 + 2 = 7$

4 Nachbaraufgaben.



5 Halbiere.

$4 = 2 + 2$

$2 = 1 + 1$

$6 = 3 + 3$

$10 = 5 + 5$

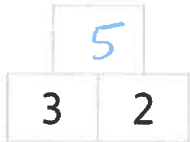
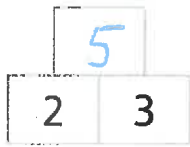
$8 = 4 + 4$

$12 = 6 + 6$

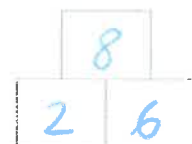
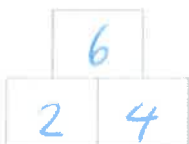
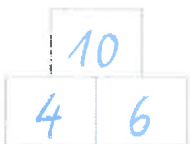
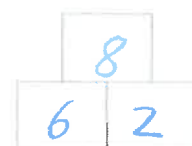
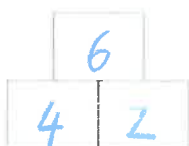


Forschen und Finden: Zahlenmauern

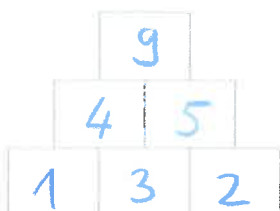
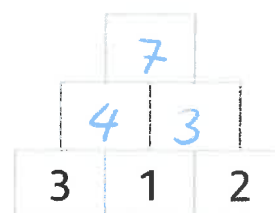
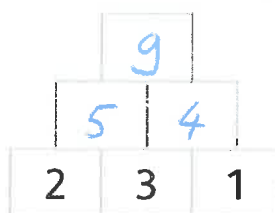
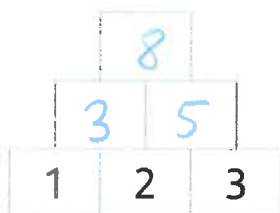
1 Finde Mauern mit **2** **3** **5**. Vergleiche.



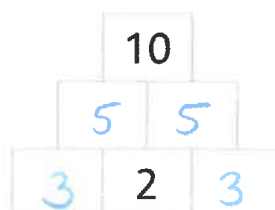
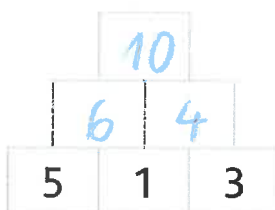
2 Finde Mauern mit **6** **4** **2**.



3 Finde Mauern mit **1** **2** **3**. Vergleiche.



5 Trage passende Zahlen ein.



Beispiel

- 1–3 Zahlenmauern mit gleichen Grundsteinen berechnen und erkunden; Immer zwei Mauern haben gleiche Decksteine.
4 Verschiedene Zahlenmauern mit dem Deckstein 10 finden, ggf. mögliche Lösungswege erläutern.



Die Einspluseins-Tafel zum Ausfüllen

