

Zahlenmauern 1 – Lösungen

1. Klasse

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- *** Hohe Anforderungen

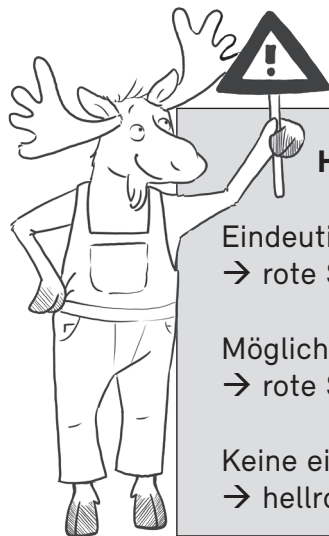
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Hinweis zu den Lösungen

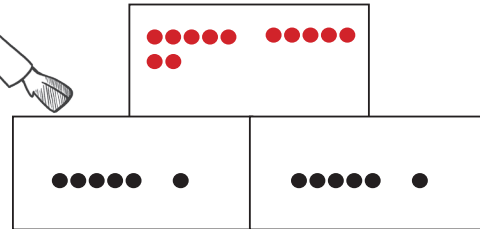
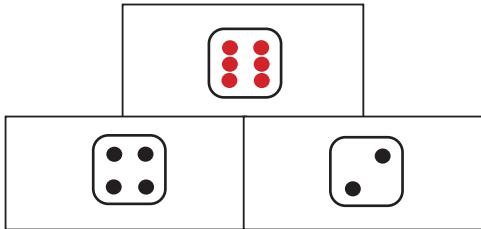
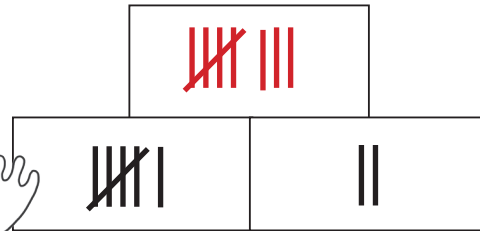
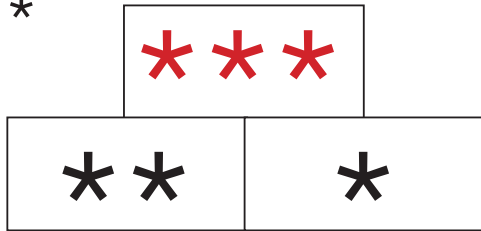
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Mögliche Lösung → rote Schrift, hellrot hinterlegt	
Keine eindeutige Lösung → hellrot hinterlegt	

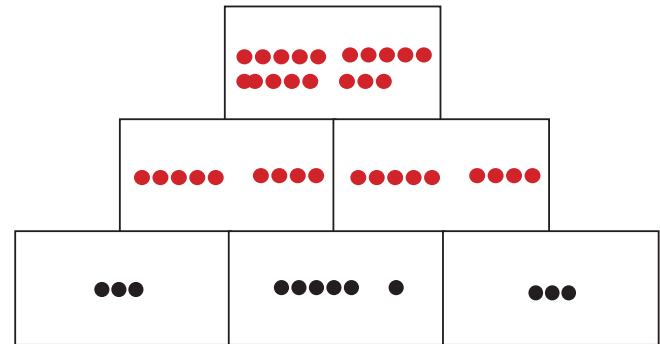
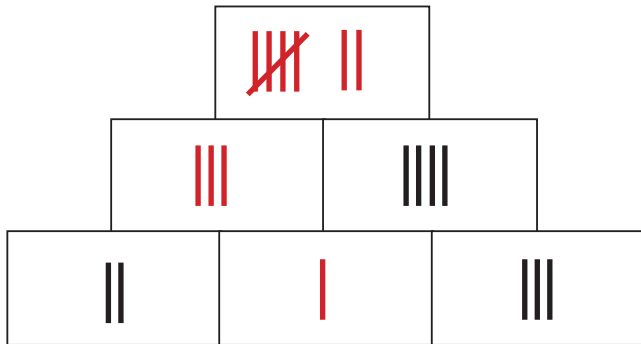
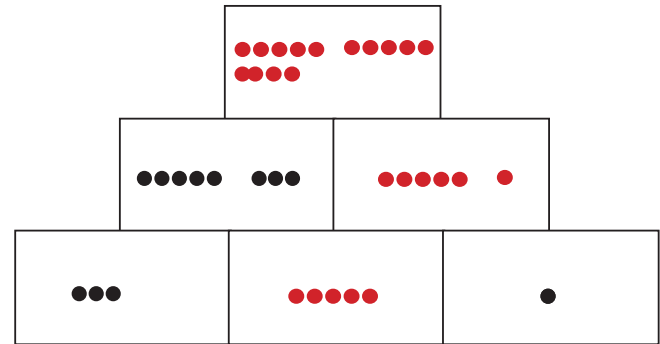
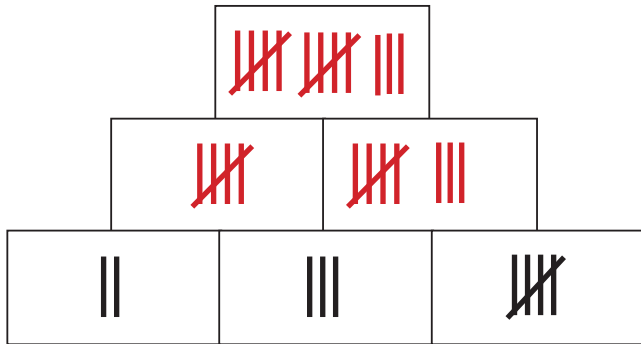
Zahlenmauern mit Mengen



Zeichne in die leeren Steine.

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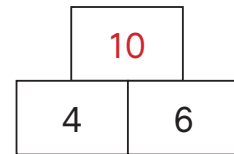
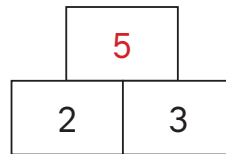
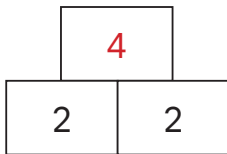
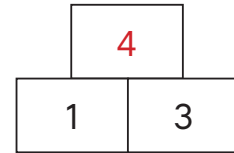
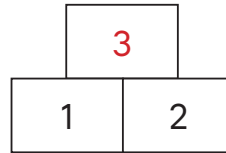
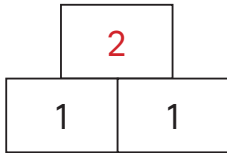


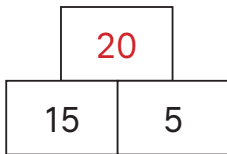
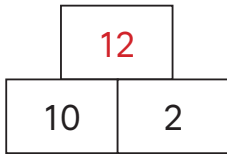
Zwei Grundsteine



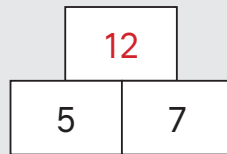
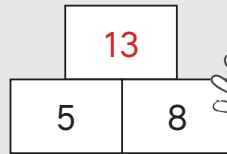
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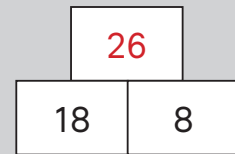
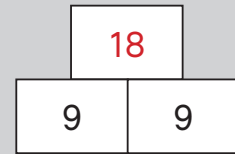
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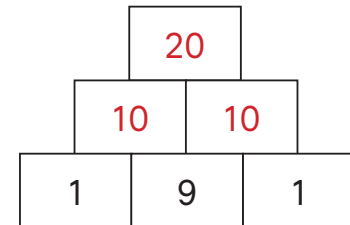
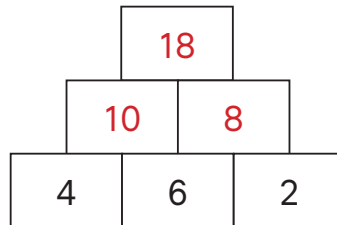
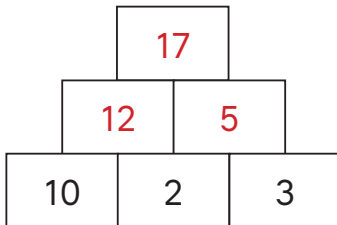
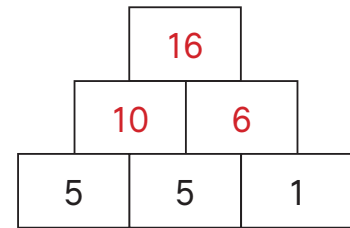
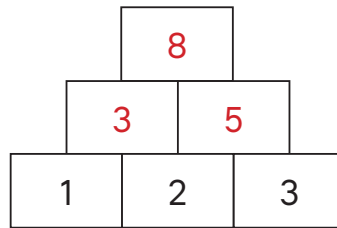
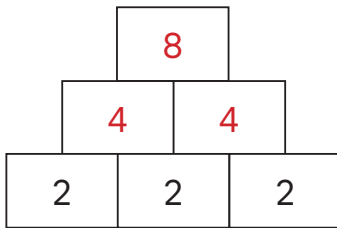


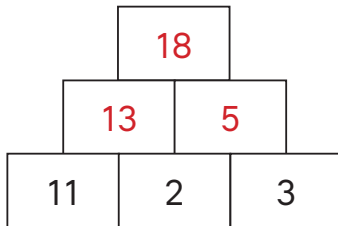
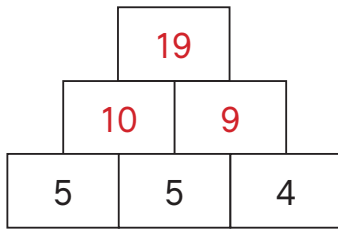
Drei Grundsteine



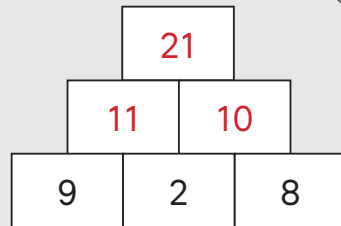
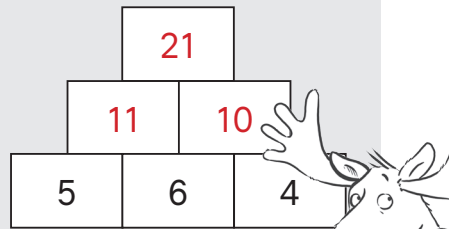
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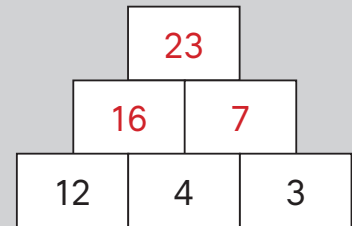
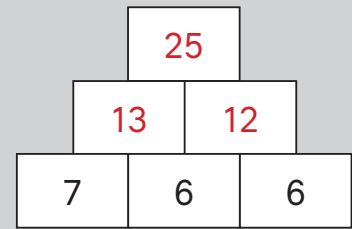
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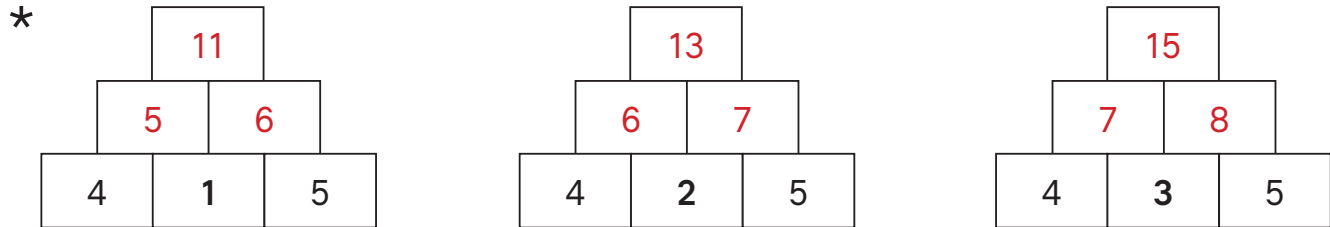




Der Mittelstein



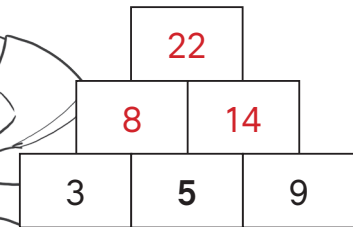
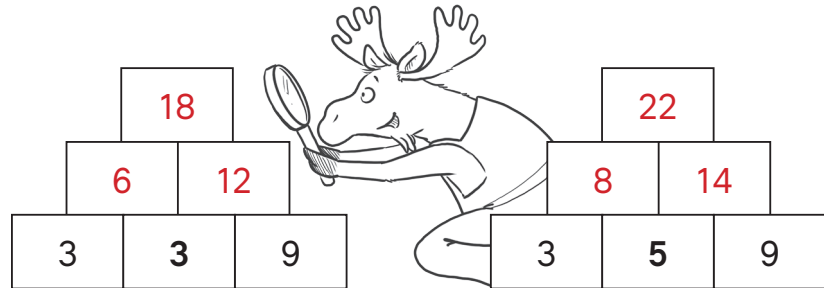
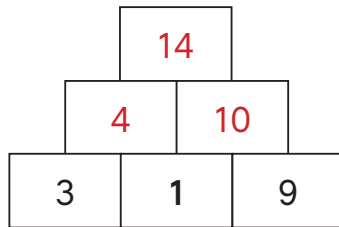
Der Mittelstein wird um 1 erhöht. Was fällt dir beim Kopfstein auf?



Der Kopfstein erhöht sich jeweils um zwei. Er erhöht sich um doppelt so viel wie der Mittelstein.



Der Mittelstein wird um 2 erhöht. Was fällt dir beim Kopfstein auf?



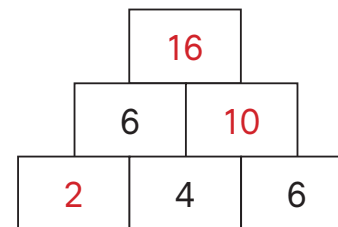
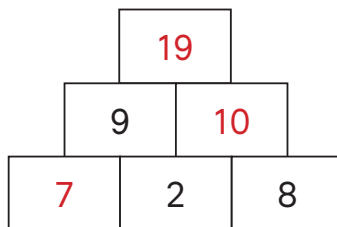
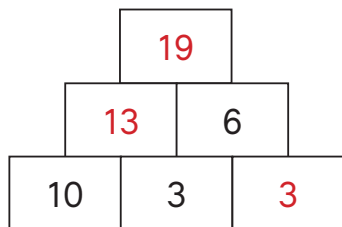
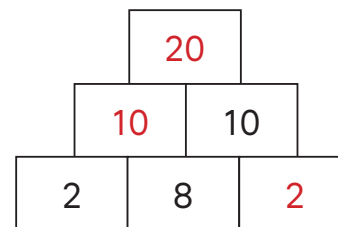
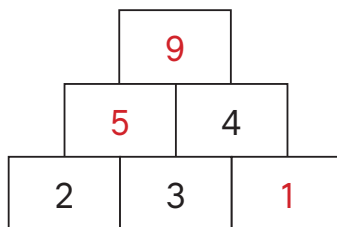
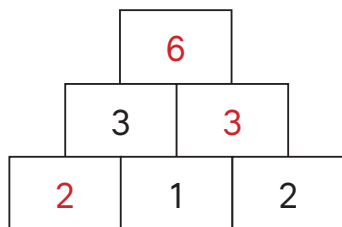
Der Kopfstein erhöht sich jeweils um vier. Er erhöht sich um doppelt so viel wie der Mittelstein.

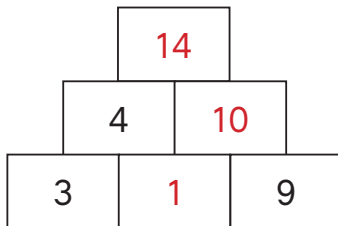
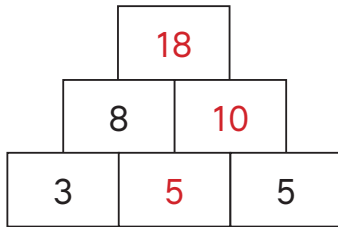
Finde drei



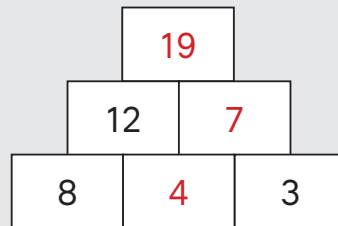
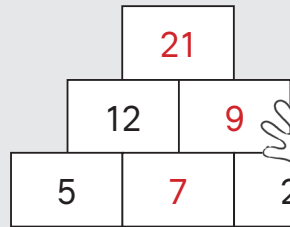
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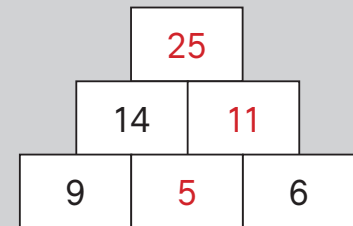
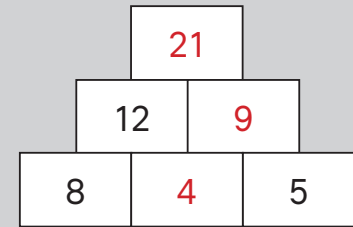
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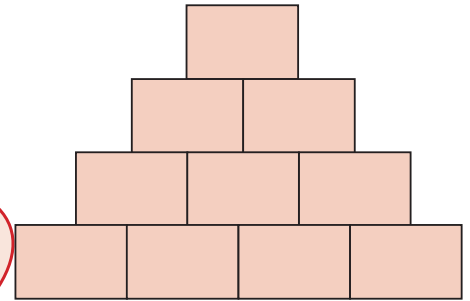
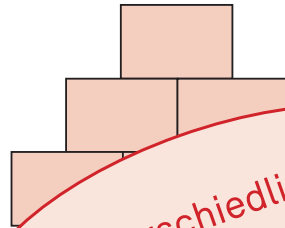
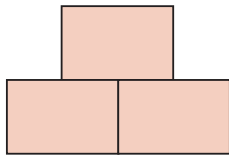


Erfinde Zahlenmauern

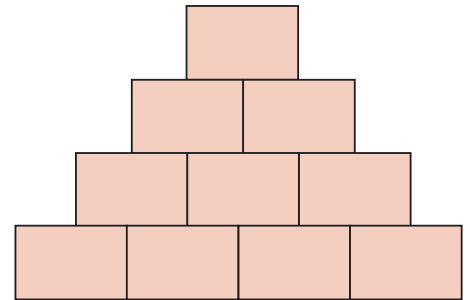
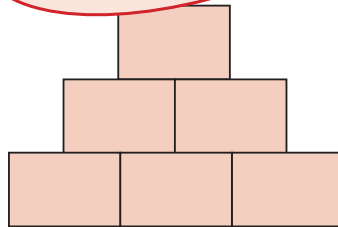
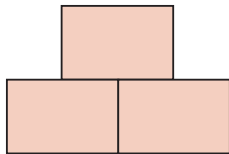


Erfinde selber knifflige Zahlenmauern.

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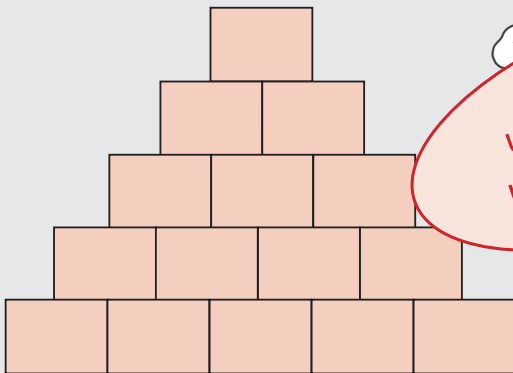


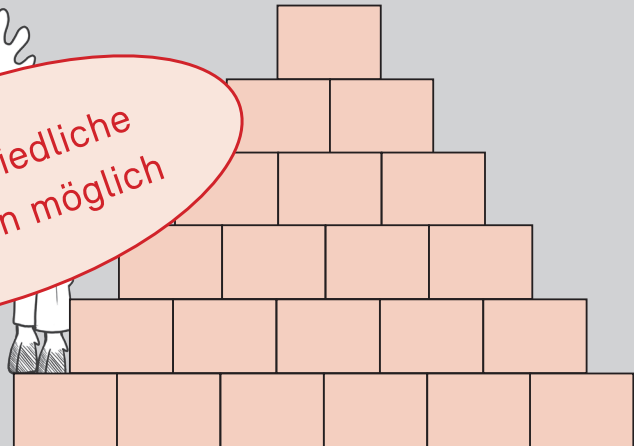
unterschiedliche
Lösungen möglich





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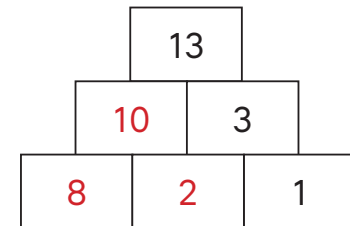
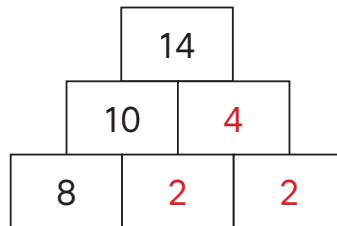
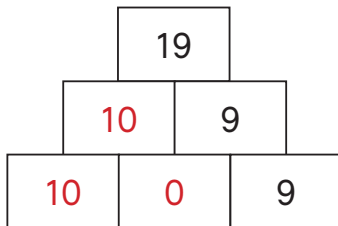
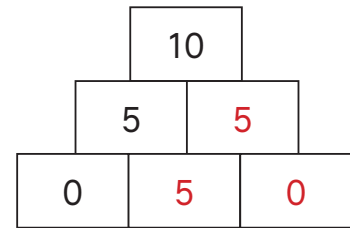
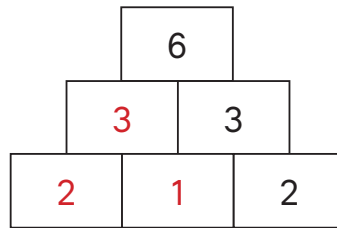
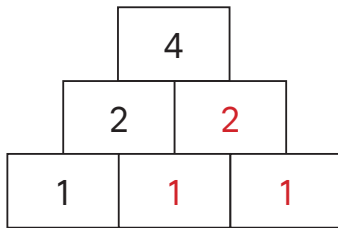
unterschiedliche
Lösungen möglich

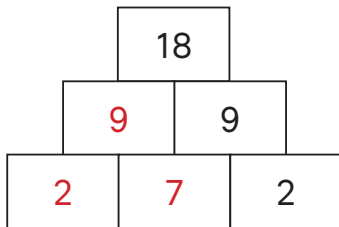
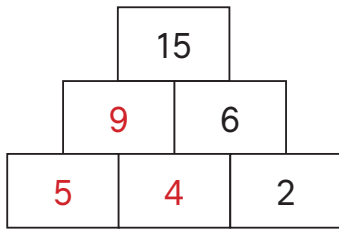
Treppenmauern



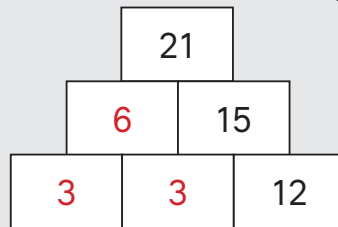
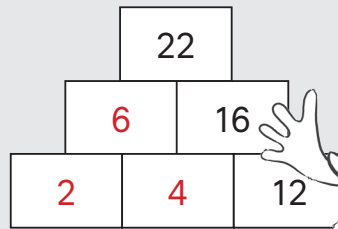
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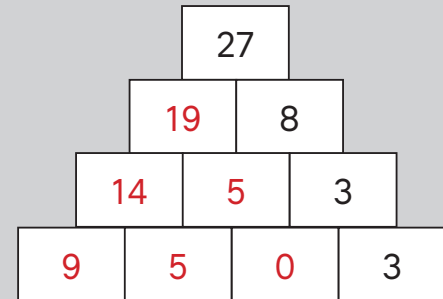
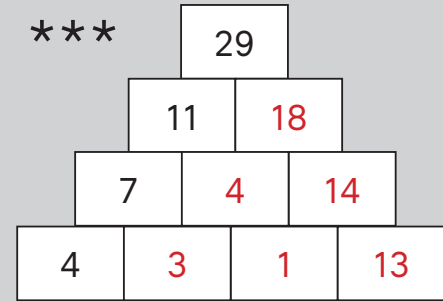
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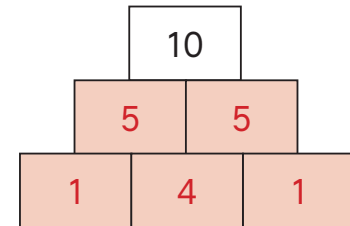
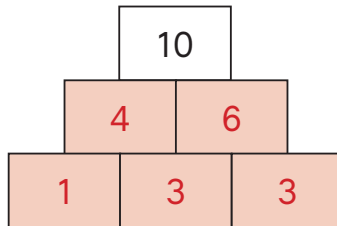
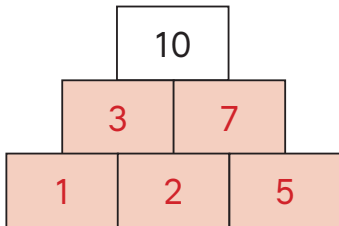
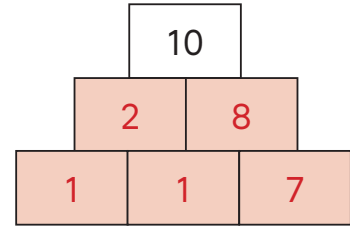
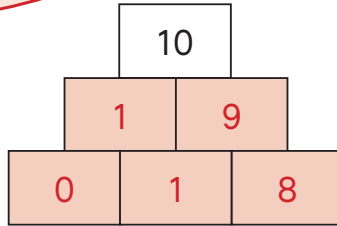
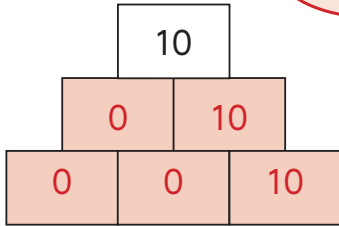
Auf der Suche



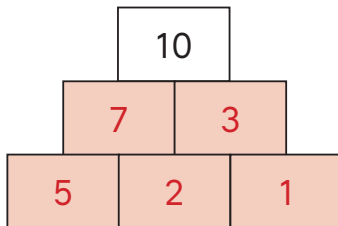
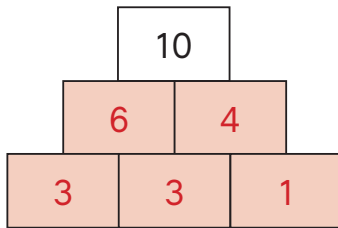
Wie viele Zahlenmauern sind unterschiedlich sein.

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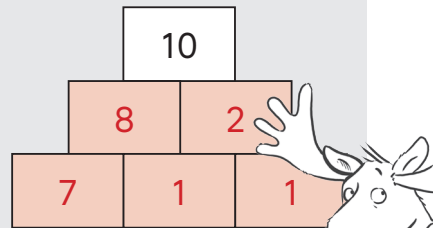
weitere Lösungen sind möglich



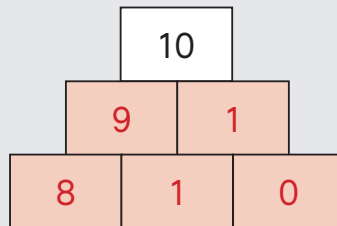
Bei den höheren Differenzierungsstufen sind nicht die Zahlenkombinationen schwieriger, sondern die Suche nach zusätzlichen Mauern, ohne dass eine doppelt vorkommt.

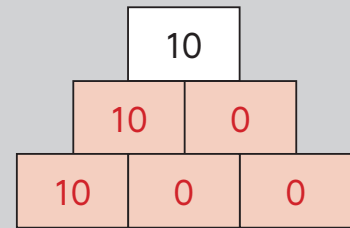


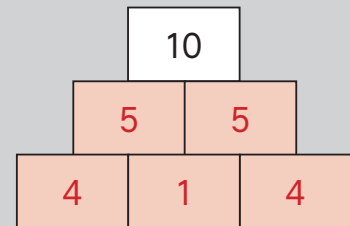
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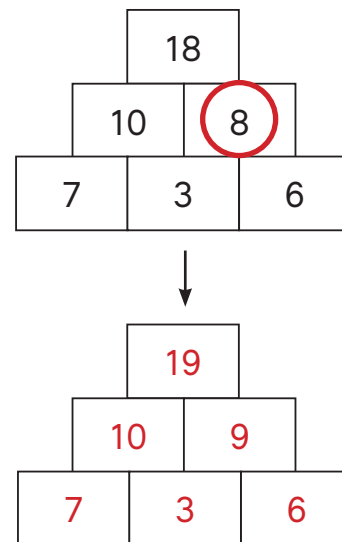
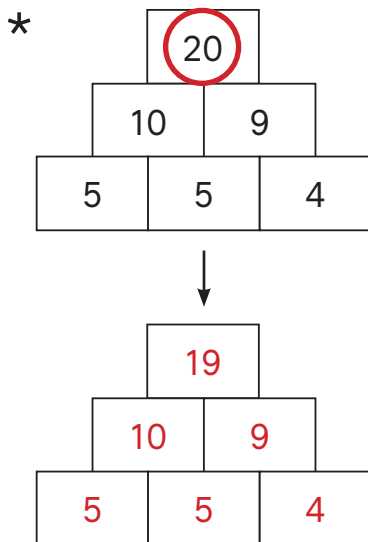
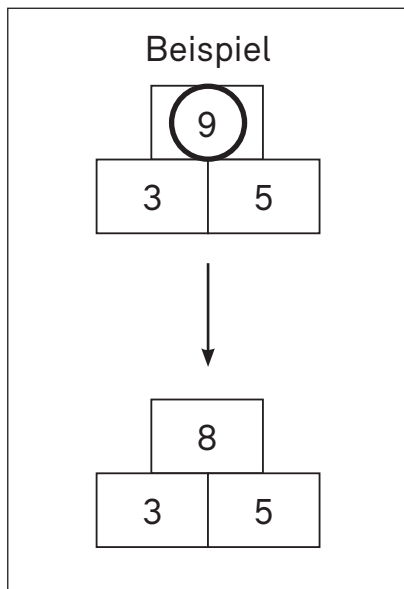


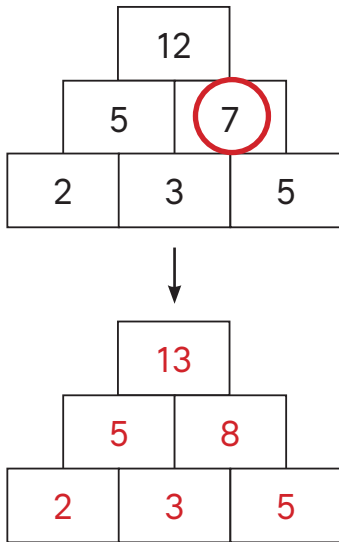


Finde den Fehler

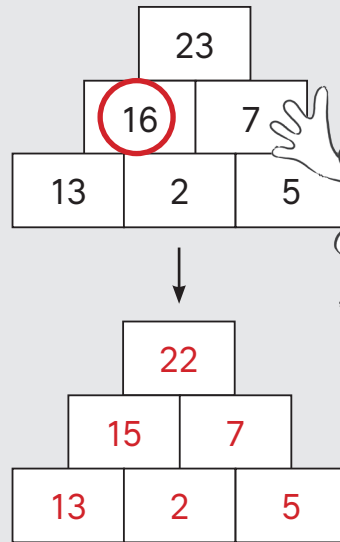


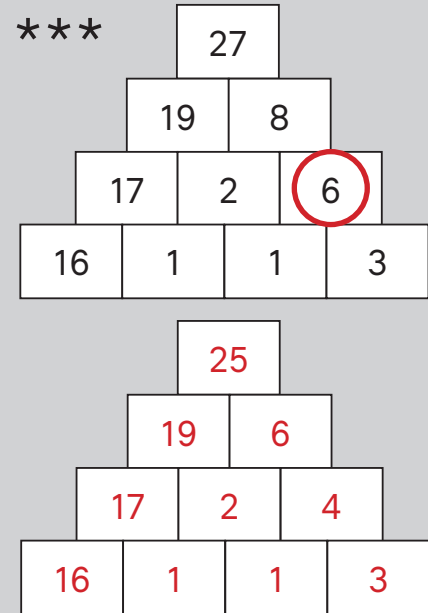
Suche in jeder Zahlenmauer den Fehler. Kreise ihn rot ein. Löse die Zahlenmauern unten richtig.





**





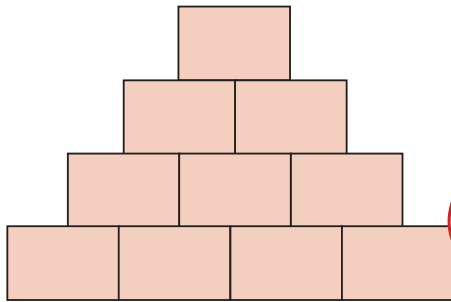
Einfache Zahlenmauer



Baue eine möglichst einfache Zahlenmauer.

*

Wieso ist diese Zahlenmauer einfach?



unterschiedliche
Lösungen möglich



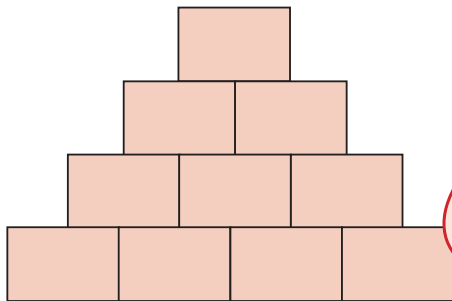
Schwierige Zahlenmauer



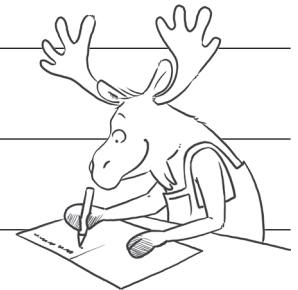
Baue eine möglichst schwierige Zahlenmauer.

*

Wieso ist diese Zahlenmauer schwierig?



unterschiedliche
Lösungen möglich



Baue Zahlenmauern



Baue selber verschiedene Zahlenmauern.

unterschiedliche
Lösungen möglich





unterschiedliche
Lösungen möglich

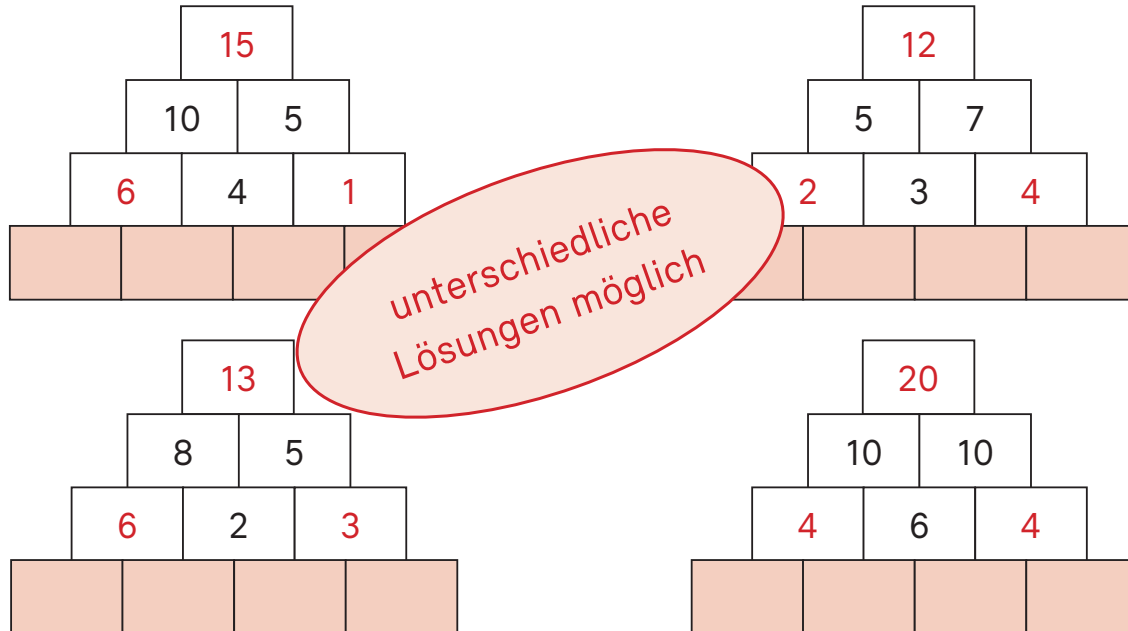


Knifflige Zahlenmauern



Schreibe die fehlenden Zahlen in die leeren Steine.

*





19			
11		8	
10	1	7	
[] [] [] []			

12		
8	4	
5	3	1

24			
12		12	
5	7	5	
[] [] [] []			

20		
4	16	
2	2	14

*unterschiedliche
Lösungen möglich*

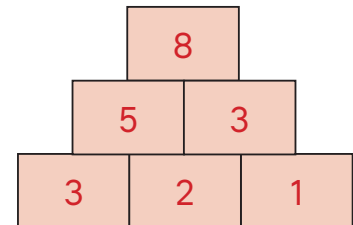
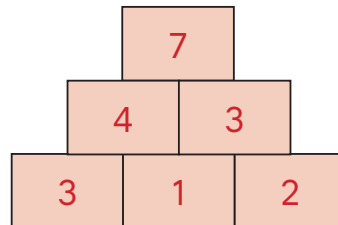
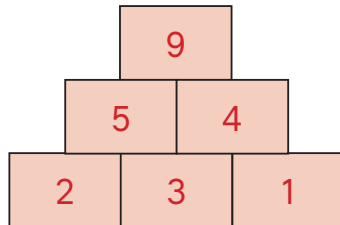
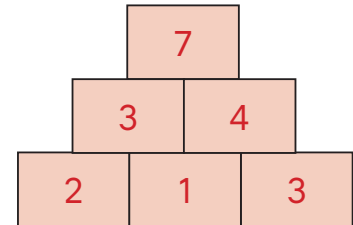
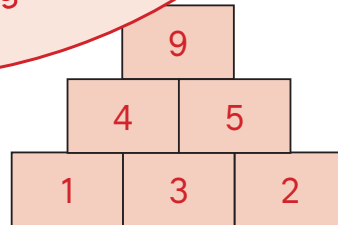
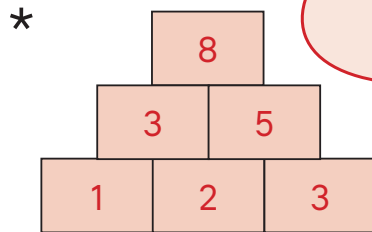
Hoch hinaus



Der Kopfstein soll **möglichst gross** sein.

Wie kannst du diese drei
Probieren aus.

*unterschiedliche
Lösungen möglich*





Was hast du herausgefunden? Begründe.

Liegt der grösste Grundstein (3) in der Mitte, ist der Kopfstein am grössten.

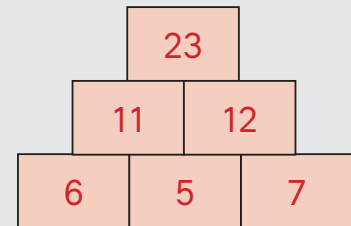
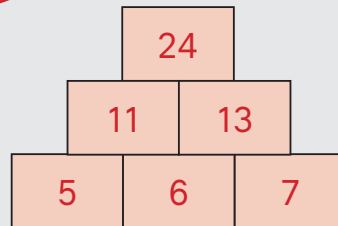
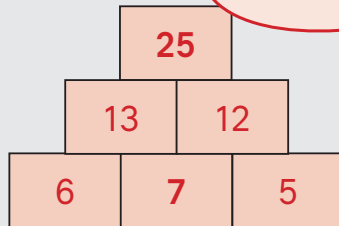


unterschiedliche
Lösungen möglich

** Überprü

Grundsteinen:

5	6	7
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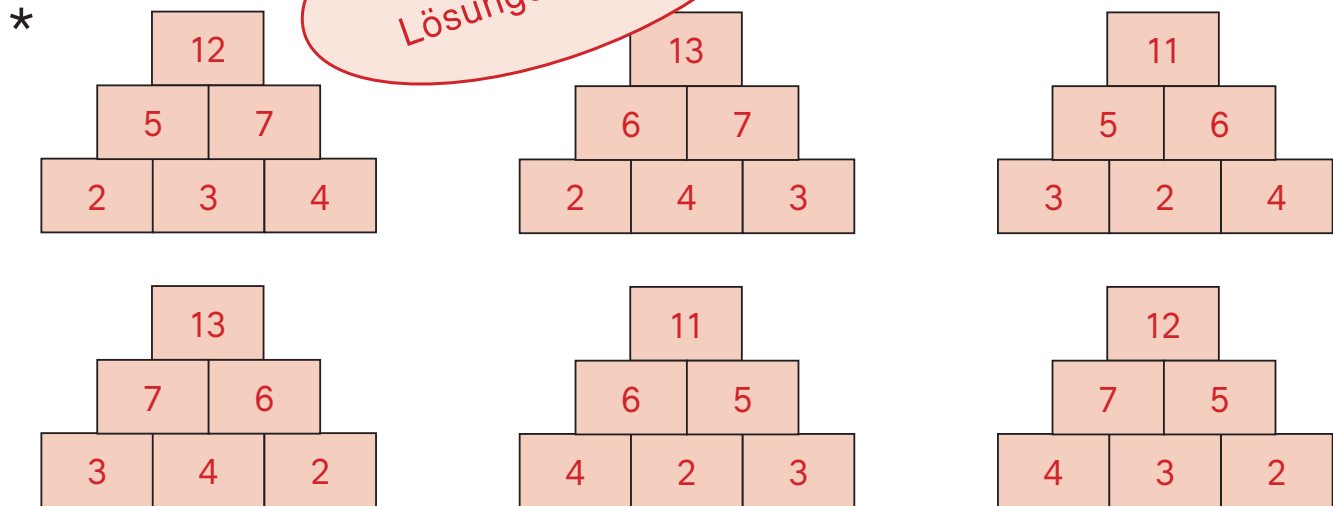
Tief hinab



Der Kopfstein soll **möglichst klein** sein.

Wie kannst du diese drei
Probieren aus.

*unterschiedliche
Lösungen möglich*





Was hast du herausgefunden? Begründe.

Liegt der kleinste Grundstein (2) in der Mitte, ist der Kopfstein am kleinsten.

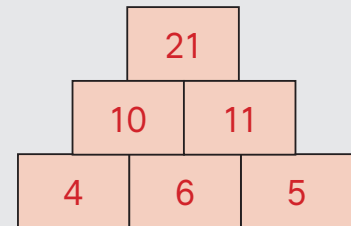
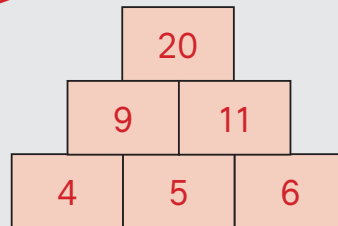
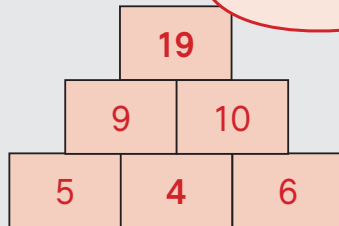


unterschiedliche
Lösungen möglich

** Überprü

Grundsteinen:

4	5	6
---	---	---

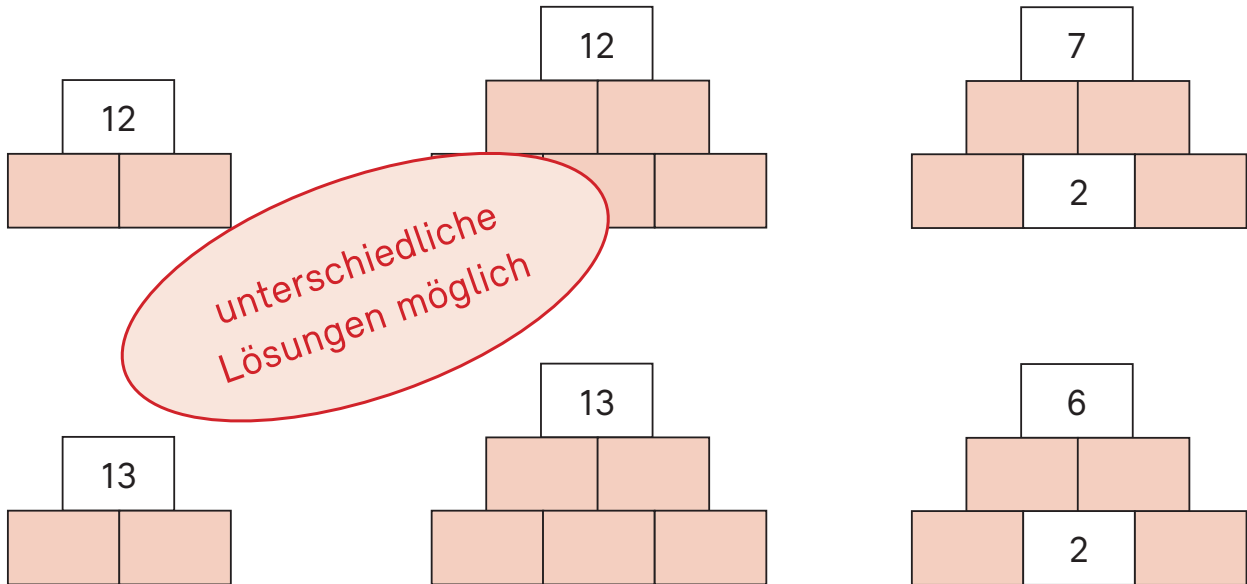


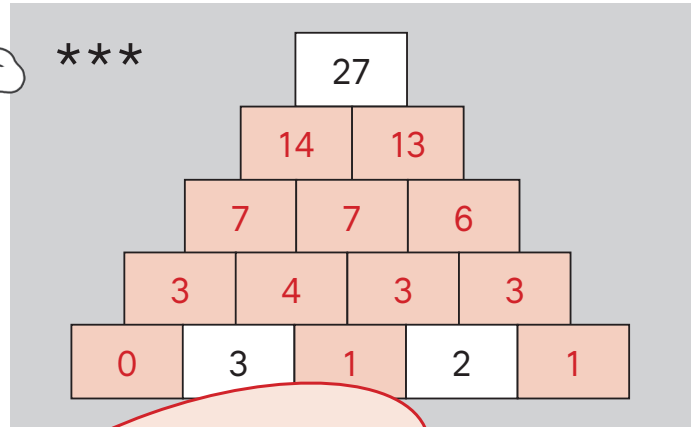
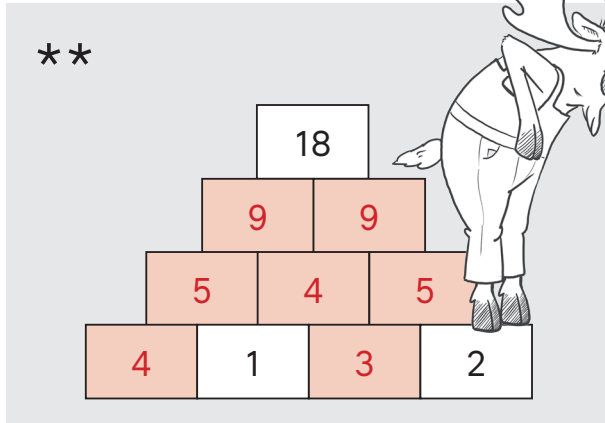
Kopfsteine



Schreibe die fehlenden Zahlen in die leeren Steine.

*





Wie bist du vorgegangen?

unterschiedliche
Lösungen möglich

Rechnen, rechnen, rechnen



Rechne aus und schreibe die Lösungen auf die Linien.

Schreibe die fehlenden Zahlen in die leeren Steine.

★

8		
4	4	
1+1	2	2
2		

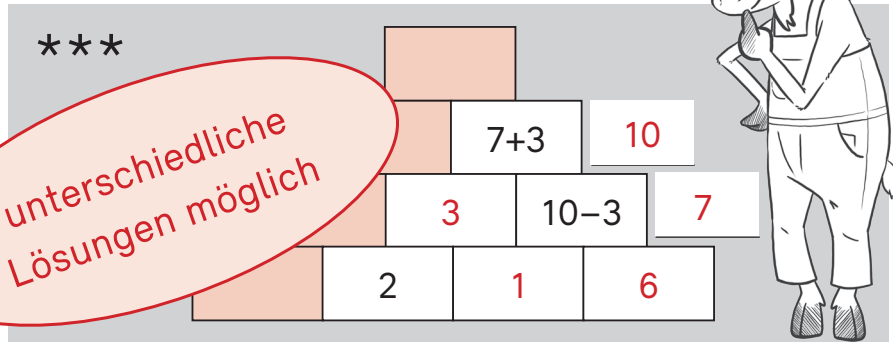
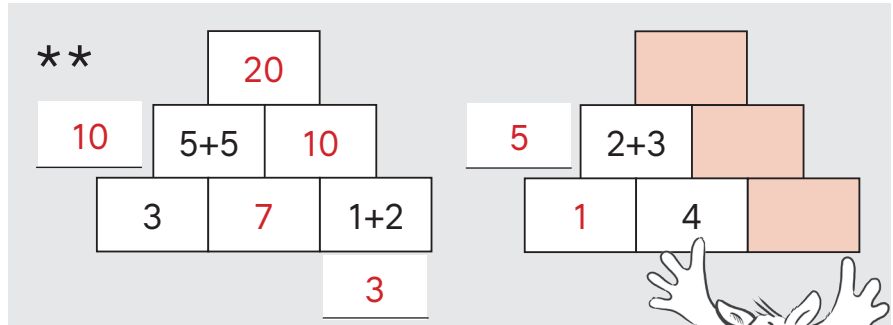
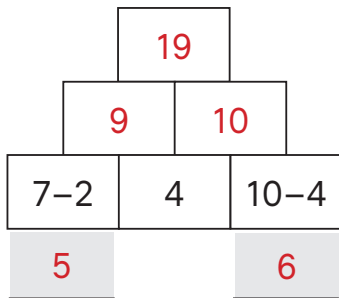
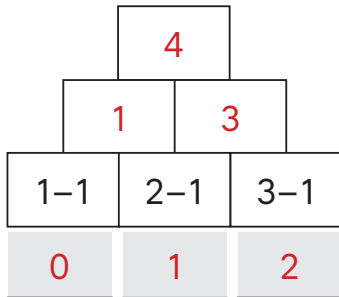
10		
5	5	
1+2	2	2+1
3		3

11		
6	5	
3+1	1+1	1+2
4	2	3

16		
6	10	
1+1	2+2	3+3
2	4	6

20		
15	5	
6+4	5+0	0+0
10	5	0

26		
11	15	
3+1	3+4	2+6
4	7	8



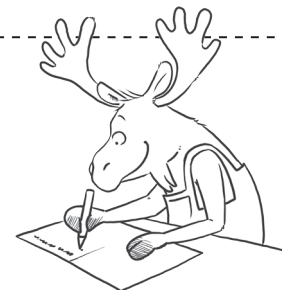
unterschiedliche
Lösungen möglich



Selbsteinschätzung

Schau nochmals alle Übungen durch.

1. Welche Übung war besonders einfach? Kreuze sie grün an.
2. Weshalb war sie einfach?



unterschiedliche
Lösungen möglich

3. Welche Übung war besonders schwierig? Kreuze sie rot an.
4. Weshalb war sie schwierig?