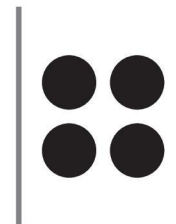
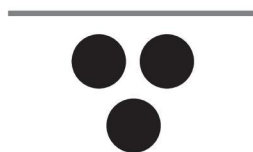
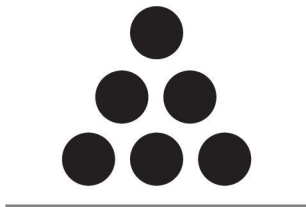
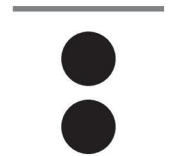
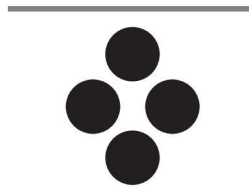
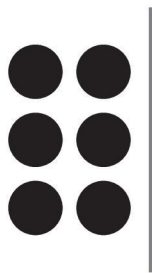
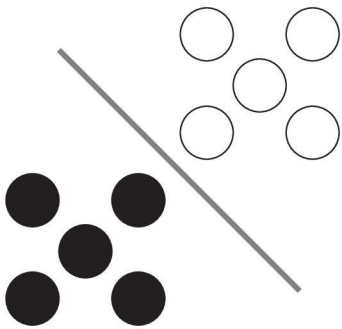


Verdoppeln mit dem Spiegel (1)



Verdoppeln mit dem Spiegel (2)

1



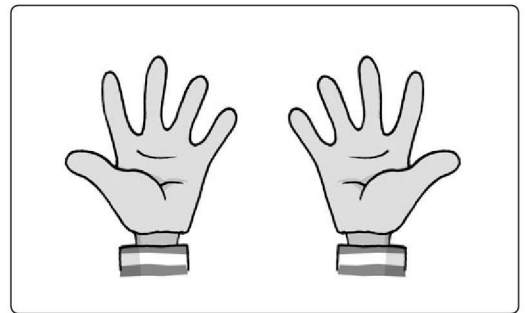
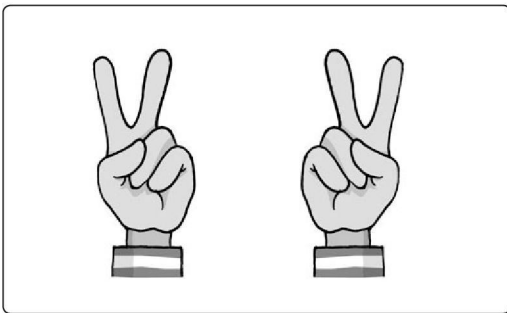
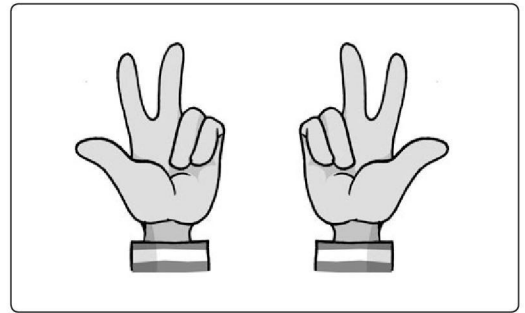
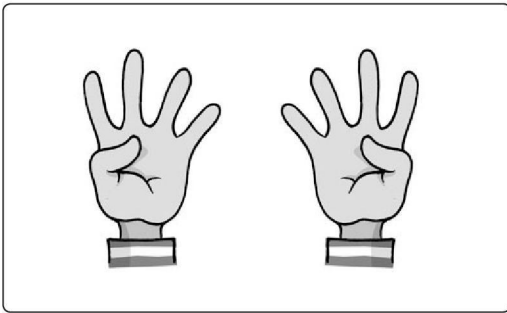
A 20x20 grid containing 12 dot patterns for doubling exercises. Each pattern consists of black or white dots and a mirror line. The patterns are as follows:

- Pattern 1:** 5 black dots (two columns of two, one in between) and 5 white dots (two columns of two, one in between). Mirror line: diagonal from top-left to bottom-right.
- Pattern 2:** 5 white dots (two columns of two, one in between) and 3 black dots (diagonal line). Mirror line: vertical.
- Pattern 3:** 6 black dots (two columns of three). Mirror line: horizontal.
- Pattern 4:** 5 black dots (two columns of two, one in between). Mirror line: diagonal from bottom-left to top-right.
- Pattern 5:** 7 black dots (two columns of three, one in between). Mirror line: vertical.
- Pattern 6:** 7 black dots (two columns of three, one in between). Mirror line: horizontal.
- Pattern 7:** 4 black dots (two columns of two). Mirror line: horizontal.
- Pattern 8:** 4 black dots (two columns of two). Mirror line: horizontal.
- Pattern 9:** 5 black dots (two columns of two, one in between). Mirror line: horizontal.
- Pattern 10:** 7 black dots (two columns of three, one in between). Mirror line: horizontal.
- Pattern 11:** 4 black dots (two columns of two). Mirror line: diagonal from top-left to bottom-right.
- Pattern 12:** 6 black dots (two columns of three). Mirror line: horizontal.

Verdoppeln mit Fingerbildern (1)








1 















2    

1. Ergebnis der Verdopplung notieren
2. Verdoppelungsaufgaben finden und im Heft notieren

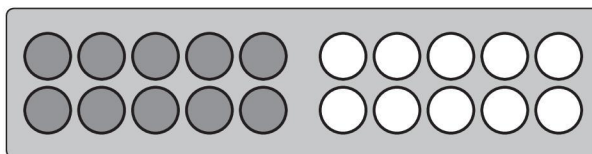
Verdoppeln mit Fingerbildern (2)

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

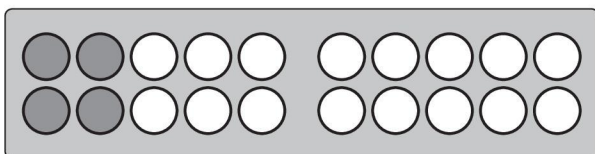
- 1 
- 2 

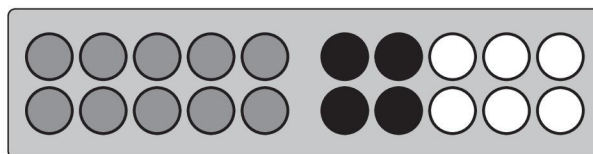
Verdoppelungsaufgaben im Zwanzigerfeld (1)



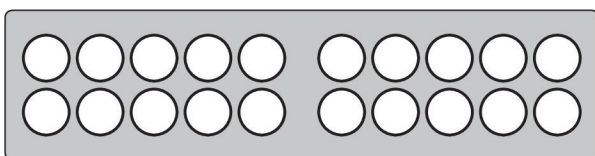
$$5 + 5 = \square$$



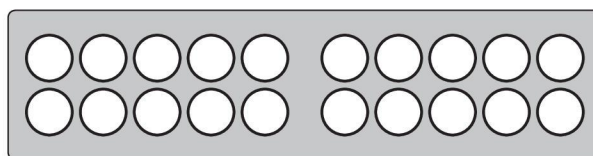
$$2 + 2 = \square$$



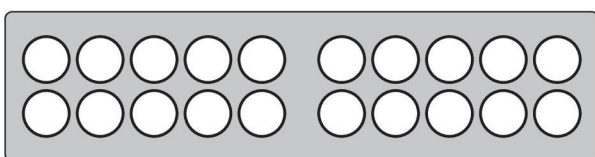
$$7 + 7 = \square$$



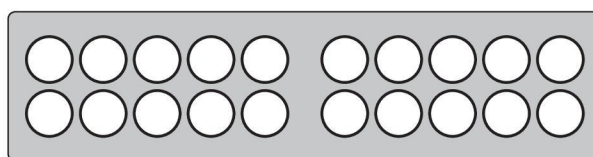
$$1 + 1 = \square$$



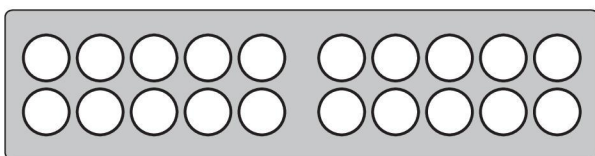
$$6 + 6 = \square$$



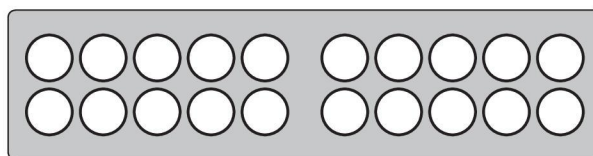
$$3 + 3 = \square$$



$$8 + 8 = \square$$



$$4 + 4 = \square$$

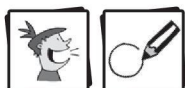
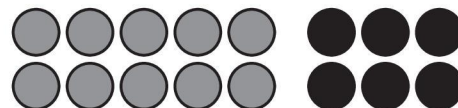
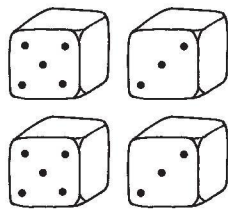
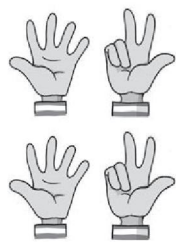


$$9 + 9 = \square$$

Verdoppelungsaufgaben im Zwanzigertfeld (2)

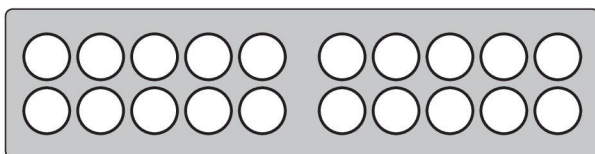
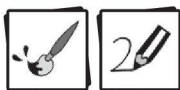


1

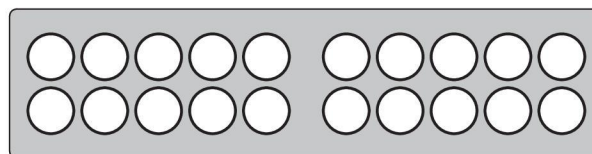


Wie rechnest du einfach?

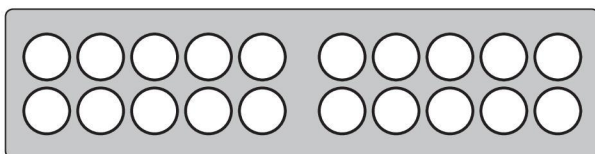
2



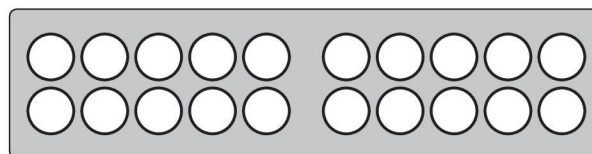
$$5 + 5 = \square$$



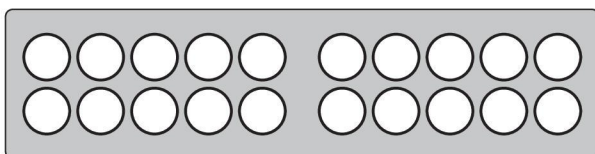
$$8 + 8 = \square$$



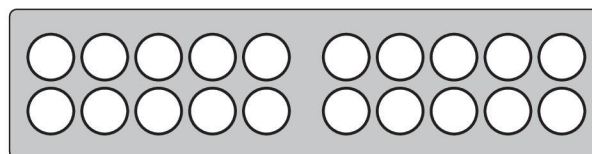
$$9 + 9 = \square$$



$$10 + 10 = \square$$





$$7 + 7 = \square$$

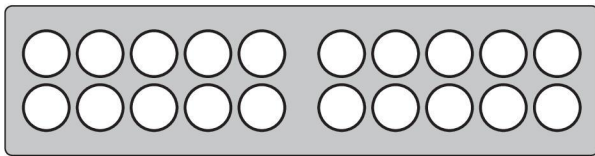


$$6 + 6 = \square$$

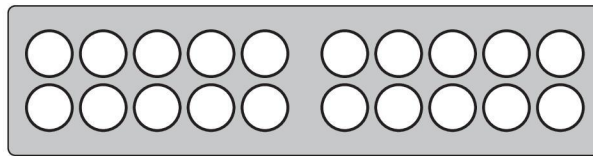
Verdoppelungsaufgaben im Zwanzigerfeld (3)



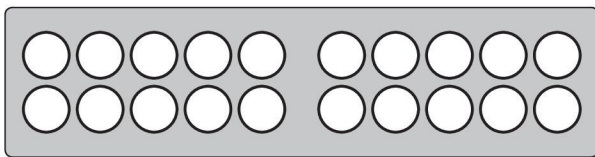
1   



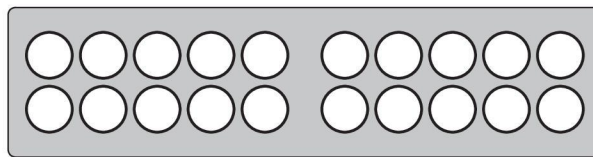
$$\square + \square = 4$$



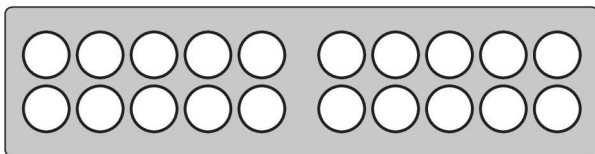
$$\square + \square = 6$$



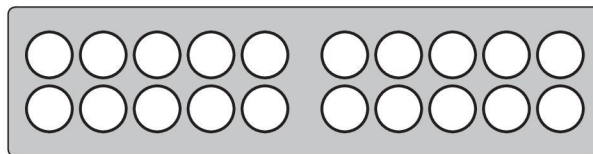
$$\square + \square = 14$$



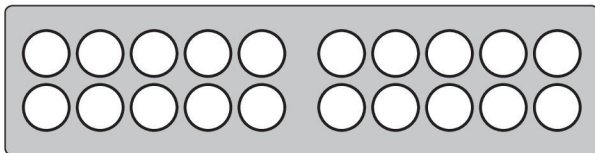
$$\square + \square = 12$$



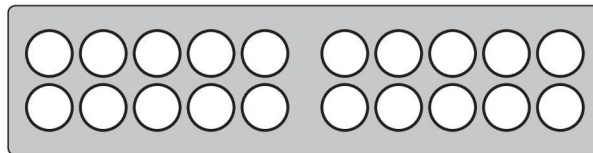
$$\square + \square = 20$$



$$\square + \square = 18$$



$$\square + \square = 10$$



$$\square + \square = 16$$

2  

$$3 + 3 = \square$$

$$6 + 6 = \square$$

$$\square + \square = \square$$

$$4 + 4 = \square$$

$$\square + \square = \square$$

$$\square + \square = \square$$

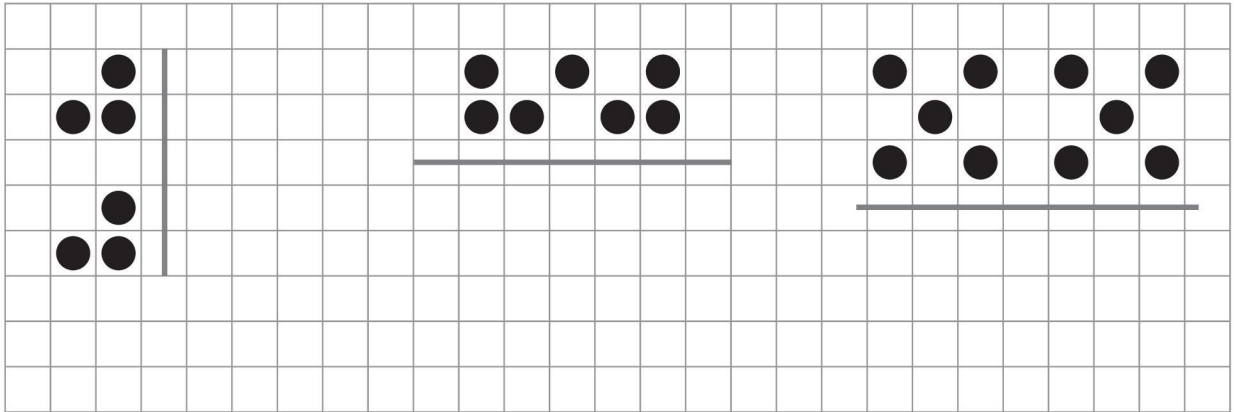
$$5 + 5 = \square$$

$$\square + \square = \square$$

$$\square + \square = \square$$

Verdoppelungsaufgaben (1)

1



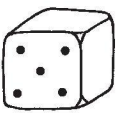
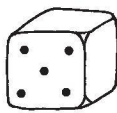
2

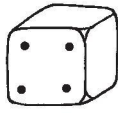
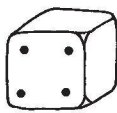


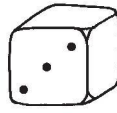
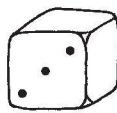
2			

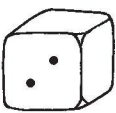
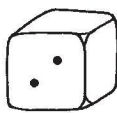
Verdoppelungsaufgaben (2)

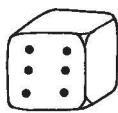
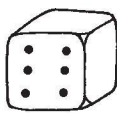
1 

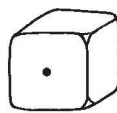
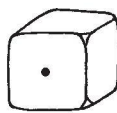
 
 + =

 
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2  

 
 + =

 
 + =

 
 + =

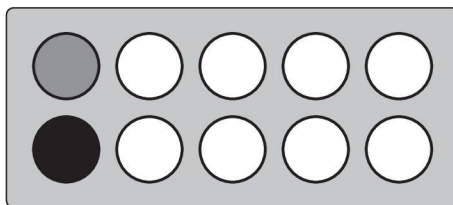
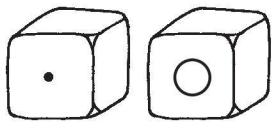


+ =

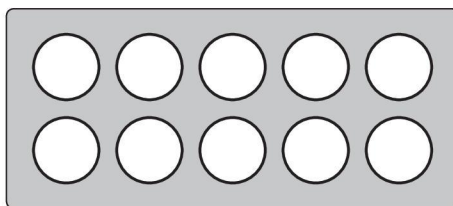
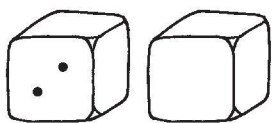


+ =

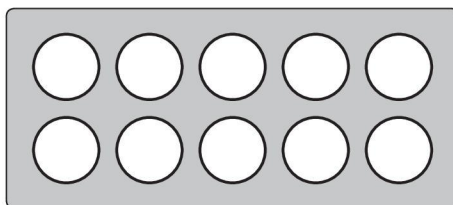
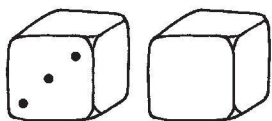
Verdoppelungsaufgaben im Zehnerfeld (1)



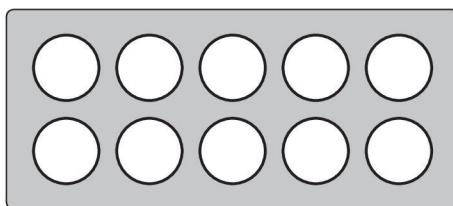
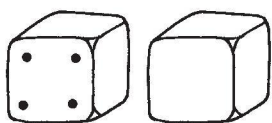
$$1 + 1 = \square$$



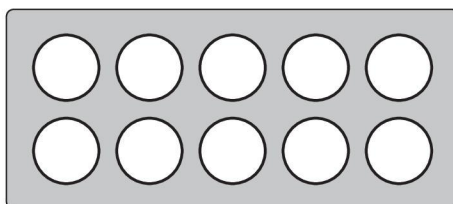
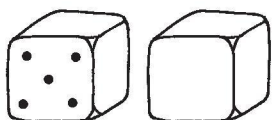
$$\square + \square = \square$$



$$\square + \square = \square$$



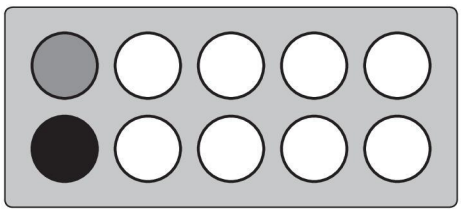

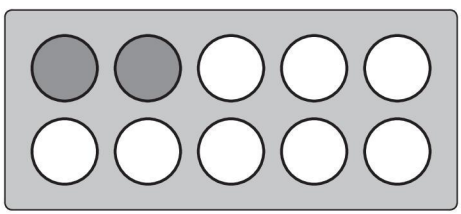

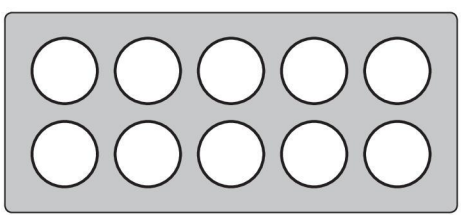

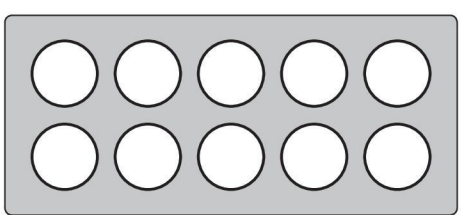

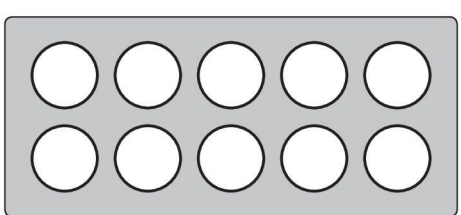

$$\square + \square = \square$$





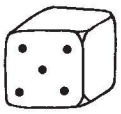
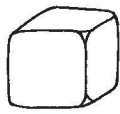
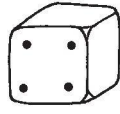
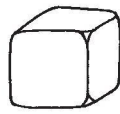
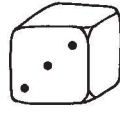
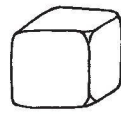
$$\square + \square = \square$$

Verdoppelungsaufgaben im Zehnerfeld (2)

1  

1		$1 + 1$	
2		$\square + \square$	
3		$\square + \square$	
4		$\square + \square$	
5		$\square + \square$	

2  

					
$\square + \square = \square$	$\square + \square = \square$	$\square + \square = \square$	$\square + \square = \square$	$\square + \square = \square$	$\square + \square = \square$

Ellen Kraft: Rechenstrategien im Zahlenraum bis 20 trainieren © Persen Verlag