

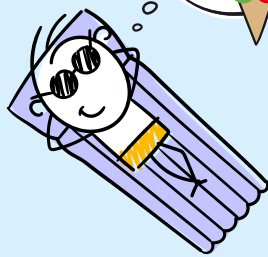
# Mathe macht stark

Jahrgangsstufen 5 und 6  
Multiplikation und Division

Schülerheft



$$450 : 3$$



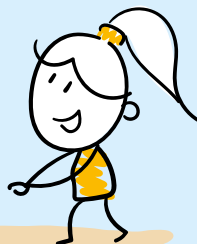
$$30 \cdot 40$$



$$260 : 10$$



$$6 \cdot 207$$



$$3 \cdot 300$$



## Teil 1: Multiplikation

- 1 Multiplikation – Blöcke – 6
- 2 Multiplikation – Stellenwerttafel – 10
- 3 Multiplikation mit 10 – Blöcke – 14
- 4 Multiplikation mit 10 – Stellenwerttafel – 18
- 5 Multiplikation mit Vielfachen von 10 – Stellenwerttafel – 22
- 6 Multiplikation im Punktefeld – Malkreuz – 26
- 7 Schriftlich multiplizieren – 30

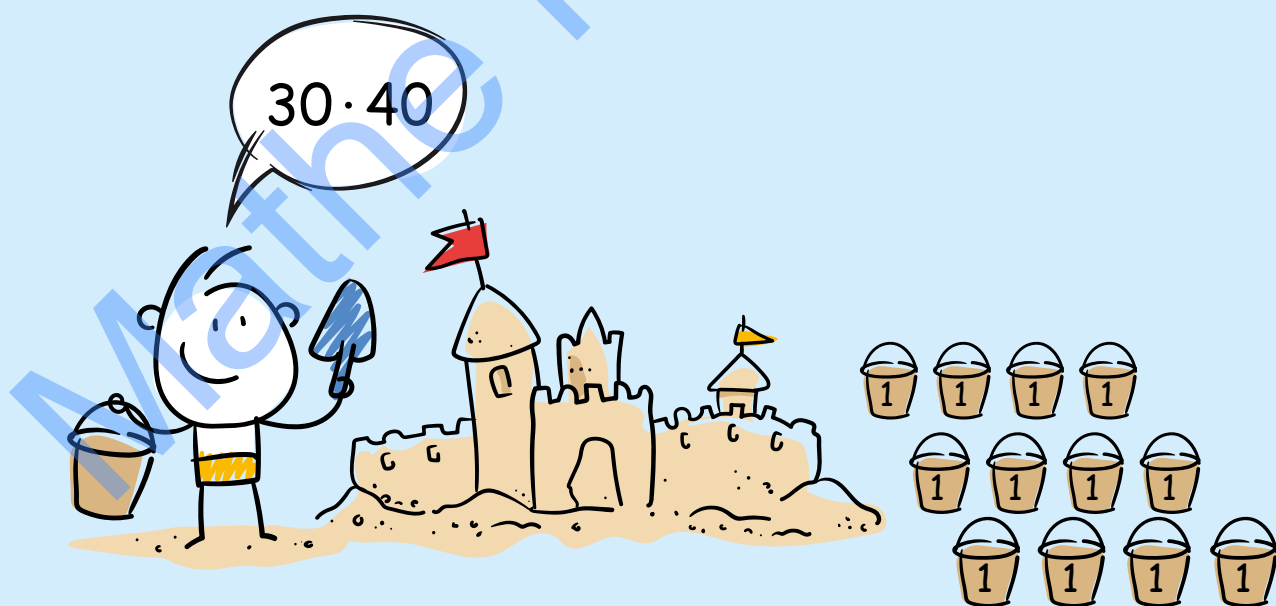
## Teil 2: Division

- 1 Division – Blöcke – 36
- 2 Division schrittweise lösen – 40
- 3 Division durch 10 – Blöcke – 44
- 4 Division durch 10 – Stellenwerttafel – 48
- 5 Division im Punktefeld – Malkreuz – 52
- 6 schriftlich dividieren – 56

Mathe macht stark

# TEIL 1

# MULTIPLIKATION





## Multiplikation legen und lösen

**Aufgabe:  $4 \cdot 24$**

24 legen  $\rightarrow$  4-mal 24 legen  $\rightarrow$  Bündeln  $\rightarrow$  Ergebnis ablesen

$4 \cdot 24 = 96$

1 Lege und lies das Ergebnis ab.

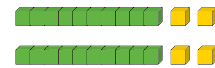
$$3 \cdot 14 = \underline{\quad}$$



$$3 \cdot 17 = \underline{\quad}$$



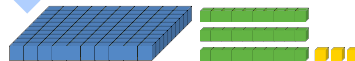
$$3 \cdot 24 = \underline{\quad}$$



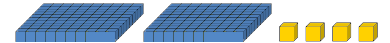
$$6 \cdot 15 = \underline{\quad}$$



$$4 \cdot 123 = \underline{\quad}$$



$$4 \cdot 204 = \underline{\quad}$$



2 Lege und lies das Ergebnis ab.

$$5 \cdot 13 = \underline{\quad}$$

$$6 \cdot 12 = \underline{\quad}$$

$$5 \cdot 31 = \underline{\quad}$$

$$4 \cdot 107 = \underline{\quad}$$

$$5 \cdot 113 = \underline{\quad}$$

$$6 \cdot 121 = \underline{\quad}$$

3 Hier ist das Ergebnis bekannt. Lege und löse die Multiplikationsaufgabe.

$$2 \cdot \underline{\quad} = 28$$

$$3 \cdot \underline{\quad} = 39$$

$$4 \cdot \underline{\quad} = 48$$

$$3 \cdot \underline{\quad} = 396$$

$$6 \cdot \underline{\quad} = 636$$

$$7 \cdot \underline{\quad} = 714$$

$$4 \cdot \underline{\quad} = 416$$

$$9 \cdot \underline{\quad} = 360$$

$$\underline{\quad} \cdot \underline{\quad} = 120$$

$$8 \cdot \underline{\quad} = 416$$

$$6 \cdot \underline{\quad} = 360$$

$$\underline{\quad} \cdot \underline{\quad} = 120$$

$$\underline{\quad} \cdot \underline{\quad} = 416$$

$$\underline{\quad} \cdot \underline{\quad} = 360$$

$$\underline{\quad} \cdot \underline{\quad} = 120$$

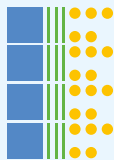


# Multiplikation zeichnen und lösen

## Aufgabe: $4 \cdot 135$

135 zeichnen  $\rightarrow$  4-mal 135 zeichnen  $\rightarrow$  rechnen

$\rightarrow$  Ergebnis zeichnen und ablesen



4	·	1	3	5	=	5	4	0
4	·	1	0	0	=	4	0	0
4	·		3	0	=	1	2	0
4	·			5	=		2	0



1 Zeichne, rechne und kontrolliere.

Aufgabe	zeichnen	rechnen	Ergebnis kontrollieren
---------	----------	---------	------------------------

$3 \cdot 18$	3-mal 18	$3 \cdot 18 =$ $3 \cdot 10 =$ $3 \cdot 8 =$	
--------------	----------	---	--

$3 \cdot 27$	3-mal 27	$3 \cdot 27 =$ $3 \cdot 20 =$ $3 \cdot 7 =$	
--------------	----------	---	--

$3 \cdot 26$	3-mal 26	$3 \cdot 26 =$ $=$ $=$	
--------------	----------	------------------------------	--

$5 \cdot 120$	5-mal 120	$5 \cdot 120 =$   	
---------------	-----------	-----------------------------	--

$4 \cdot 145$	4-mal 145	$4 \cdot 145 =$   	
---------------	-----------	-----------------------------	--

$4 \cdot 307$	4-mal 307	$4 \cdot 307 =$   	
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## Multiplikation zeichnen und lösen

2 Zeichne, rechne und kontrolliere.

Aufgabe	zeichnen	rechnen	Ergebnis kontrollieren																																				
$3 \cdot 162$	3-mal 162	<table border="1"><tr><td></td><td></td><td></td><td></td><td>=</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					=																																
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$3 \cdot 440$	3-mal 440	<table border="1"><tr><td></td><td></td><td></td><td></td><td>=</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					=																																
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$4 \cdot 302$		<table border="1"><tr><td></td><td></td><td></td><td></td><td>=</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					=																																
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$4 \cdot 604$		<table border="1"><tr><td></td><td></td><td></td><td></td><td>=</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					=																																
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$4 \cdot 520$		<table border="1"><tr><td></td><td></td><td></td><td></td><td>=</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					=																																
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$2 \cdot 505$		<table border="1"><tr><td></td><td></td><td></td><td></td><td>=</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					=																																
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$5 \cdot 222$		<table border="1"><tr><td></td><td></td><td></td><td></td><td>=</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>					=																																
				=																																			



# Multiplikation schrittweise lösen

## Aufgabe: 2 · 231

		H	Z	E	=	H	Z	E
2	·	2	3	1	=	4	6	2
2	·	2	0	0	=	4	0	0
2	·		3	0	=		6	0
2	·			1	=			2

## Aufgabe: 4 · 342

		H	Z	E	=	T	H	Z	E
4	·	3	4	2	=	1	3	6	8
4	·	3	0	0	=	1	2	0	0
4	·		4	0	=		1	6	0
4	·			2	=				8

1 Multipliziere schrittweise.

		H	Z	E	=	H	Z	E
3	·	2	6	1	=			

		H	Z	E	=	H	Z	E
2	·	4	4	4	=			

		H	Z	E	=	T	H	Z	E
4	·	5	3	5	=				

		H	Z	E	=	T	H	Z	E
5	·	3	2	1	=				

		H	Z	E	=	T	H	Z	E
6	·	5	0	6	=				

		H	Z	E	=	T	H	Z	E
7	·	4	8	3	=				

2 Ergänze die grauen Lücken.

4	·		5	=					
	·	3	0	0	=	1	2	0	0
4	·		0	=			0	0	
4	·		2	=					

6	·	2		4	=	1	2		
6	·	2	0		=	1	2	0	0
6	·			0	=			0	0
	·				=			2	

3 Es haben sich Fehler versteckt. Rechne darunter richtig.

3	·	4	1	5	=	5	7	0	0
3	·	4	0	0	=	1	2	0	0
3	·		1	0	=	3	0		
3	·			5	=	1	5		

4	·	2	0	5	=	8	6	0
4	·	2	0	0	=	8	0	0
4	·		0	0	=		4	0
4	·			5	=		2	0

3	·	4	1	5	=			
					=			
					=			
					=			

4	·	2	0	5	=			
					=			
					=			
					=			



# Multiplikation legen und lösen

## Aufgabe: $2 \cdot 2516$

2516 legen

T	H	Z	E
•	••••	•	••••



2-mal 2516 legen

T	H	Z	E
•	••••	•	••••
•	••••	•	••••



Ergebnis ablesen

T	H	Z	E
••••	••••	••	••

Bündeln  
10 H sind 1 T  
10 E sind 1 Z

$2 \cdot 2516 = 5032$



1 Lege und lies das Ergebnis ab.

$3 \cdot 132 = \underline{\hspace{2cm}}$

T	H	Z	E
	•	••	••

$4 \cdot 124 = \underline{\hspace{2cm}}$

T	H	Z	E
	•	•	•••

$4 \cdot 107 = \underline{\hspace{2cm}}$

T	H	Z	E
	•	•	••••

$3 \cdot 1327 = \underline{\hspace{2cm}}$

T	H	Z	E
•	••	••	••••

$3 \cdot 1128 = \underline{\hspace{2cm}}$

T	H	Z	E
•	•	••	••••

$4 \cdot 1423 = \underline{\hspace{2cm}}$

T	H	Z	E
•	•••	••	••

2 Lege und lies das Ergebnis ab.

$4 \cdot 152 = \underline{\hspace{2cm}}$

$4 \cdot 216 = \underline{\hspace{2cm}}$

$4 \cdot 160 = \underline{\hspace{2cm}}$

$4 \cdot 2106 = \underline{\hspace{2cm}}$

$4 \cdot 1230 = \underline{\hspace{2cm}}$

$3 \cdot 1425 = \underline{\hspace{2cm}}$

3 Hier ist das Ergebnis bekannt. Lege und löse die Multiplikationsaufgabe.

$2 \cdot \underline{\hspace{1cm}} = 64$

$3 \cdot \underline{\hspace{1cm}} = 636$

$4 \cdot \underline{\hspace{1cm}} = 488$

$4 \cdot \underline{\hspace{1cm}} = 424$

$6 \cdot \underline{\hspace{1cm}} = 618$

$5 \cdot \underline{\hspace{1cm}} = 535$

$8 \cdot \underline{\hspace{1cm}} = 840$

$3 \cdot \underline{\hspace{1cm}} = 3960$

$\underline{\hspace{1cm}} \cdot \underline{\hspace{1cm}} = 240$

$4 \cdot \underline{\hspace{1cm}} = 840$

$6 \cdot \underline{\hspace{1cm}} = 3960$

$\underline{\hspace{1cm}} \cdot \underline{\hspace{1cm}} = 240$

$\underline{\hspace{1cm}} \cdot \underline{\hspace{1cm}} = 840$

$\underline{\hspace{1cm}} \cdot \underline{\hspace{1cm}} = 3960$

$\underline{\hspace{1cm}} \cdot \underline{\hspace{1cm}} = 240$

Hier gibt es mehrere Lösungen.





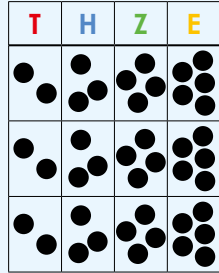
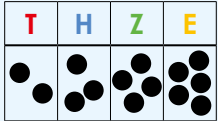


# Multiplikation zeichnen und lösen

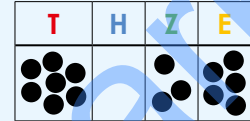
## Aufgabe: 3 · 2345

2345 zeichnen → 3-mal 2345 zeichnen → rechnen

→ Ergebnis zeichnen und ablesen



3	·	2	3	4	5	=	7	0	3	5
3	·	2	0	0	0	=	6	0	0	0
3	·		3	0	0	=		9	0	0
3	·			4	0	=		1	2	0
3	·				5	=			1	5



3 · 2345 = 7035

Bündeln  
10 Z sind 1 H  
10 H sind 1 T



1 Zeichne und rechne.

### Aufgabe

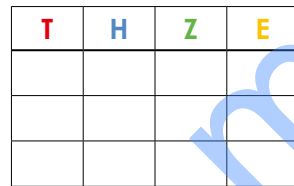
### zeichnen

### rechnen

### Ergebnis zeichnen

3 · 256

3-mal 256

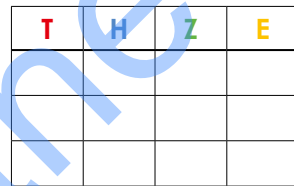


3	·	2	5	6	=			
3	·				=			
3	·				=			
3	·				=			



3 · 524

3-mal 524



3	·	5	2	4	=			



4 · 263

4-mal 263



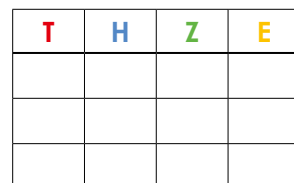
4	·	2	6	3	=			



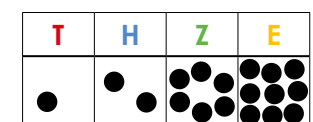
2 Das Ergebnis ist bekannt. Ergänze die Multiplikationsaufgabe und rechne.

3 · \_\_\_\_\_

3-mal \_\_\_\_\_



3	·			=	1	2	6	9
				=				
				=				
				=				





## Multiplikation zeichnen und lösen

3 Zeichne und rechne.

Aufgabe	zeichnen	rechnen	Ergebnis zeichnen																																																																												
$4 \cdot 270$ <table border="1" style="width: 100%; text-align: center;"> <tr><td>T</td><td>H</td><td>Z</td><td>E</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	T	H	Z	E					4-mal 270 <table border="1" style="width: 100%; text-align: center;"> <tr><td>T</td><td>H</td><td>Z</td><td>E</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	T	H	Z	E																	<table border="1" style="width: 100%;"> <tr><td>4</td><td>·</td><td>2</td><td>7</td><td>7</td><td>=</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>4</td><td>·</td><td> </td><td> </td><td> </td><td>=</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>4</td><td>·</td><td> </td><td> </td><td> </td><td>=</td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td>4</td><td>·</td><td> </td><td> </td><td> </td><td>=</td><td> </td><td> </td><td> </td><td> </td></tr> </table>	4	·	2	7	7	=					4	·				=					4	·				=					4	·				=					<table border="1" style="width: 100%; text-align: center;"> <tr><td>T</td><td>H</td><td>Z</td><td>E</td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	T	H	Z	E				
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# Multiplikation schrittweise lösen

## Aufgabe: $4 \cdot 132$

	H	Z	E	=	T	H	Z	E	
4	·	1	3	2	=		5	2	8
4	·	1	0	0	=		4	0	0
4	·		3	0	=		1	2	0
4	·			2	=				8

## Aufgabe: $3 \cdot 3154$

	T	H	Z	E	=	T	H	Z	E	
3	·	3	1	5	4	=	9	4	6	2
3	·	3	0	0	0	=	9	0	0	0
3	·		1	0	0	=		3	0	0
3	·			5	0	=		1	5	0
3	·				4	=			1	2

1 Multipliziere schrittweise.

	H	Z	E	=	T	H	Z	E
3	·	5	4	2	=			

	H	Z	E	=	T	H	Z	E
2	·	6	8	9	=			

	H	Z	E	=	T	H	Z	E
4	·	6	1	7	=			

	H	Z	E	=	T	H	Z	E
5	·	9	7	4	=			

	T	H	Z	E	=	T	H	Z	E
6	·	1	0	5	6	=			

	T	H	Z	E	=	T	H	Z	E
7	·	1	3	0	5	=			

2 Hier haben sich Fehler versteckt.

4	·	3	2	8	=	1	2	4	0
4	·	3	0	0	=	1	2	0	0
4	·		2		=				8
4	·			8	=			3	2

3	·	8	0	6	=	2	4	4	8
3	·	8	0	0	=	2	4	0	0
3	·		0	0	=			3	0
3	·			6	=			1	8

Rechne richtig.

4	·	3	2	8	=				

3	·	8	0	6	=				