

**4** a)  $5000 : 1000 = 5$

$5 \cdot 1000 = 5000$

c)  $90000 : 10000 = 9$

$9 \cdot 10000 = 90000$

**5** a)  $700 : 10 = 70$

$500 : 100 = 5$

$19000 : 1000 = 19$

c)  $59000 : 1000 = 59$

$7100 : 100 = 71$

$400000 : 100000 = 4$

b)  $17000 : 1000 = 17$

$17 \cdot 1000 = 17000$

d)  $300000 : 100000 = 3$

$3 \cdot 100000 = 300000$

b)  $600 : 100 = 6$

$370 : 10 = 37$

$25000 : 1000 = 25$

d)  $6200 : 100 = 62$

$800000 : 100000 = 8$

$8300 : 100 = 83$

**6** a)  $9000 : 100 = 90$

$4000 : 10 = 400$

$6000 : 1000 = 6$

c)  $410 : 10 = 41$

$2300 : 100 = 23$

$52000 : 10 = 5200$

b)  $1500 : 10 = 150$

$640 : 10 = 64$

$3900 : 100 = 39$

d)  $76000 : 1000 = 76$

$460 : 10 = 46$

$1100 : 10 = 110$

- 3** a) 5      b) 800      c) 90      d) 9  
       80            30            80            5000  
       700            5            70            50

**4** a)  $300 \xrightarrow{\cdot 80} 24\,000 \xrightarrow{: 4\,000} 6 \xrightarrow{\cdot 600} 3\,600$

b)  $12\,000 \xrightarrow{: 3\,000} 4 \xrightarrow{\cdot 20} 80 \xrightarrow{\cdot 800} 64\,000$

c)  $1\,000 \xrightarrow{: 500} 2 \xrightarrow{\cdot 50} 100 \xrightarrow{\cdot 100} 10\,000$

- 6** a) Die Zahl heißt 50.      b) Die Zahl heißt 180000.      c) Die Zahl heißt 300.

# Trainingsheft:

## Rechnen mit vielen Nullen

$1Z = 10$      $1H = 100$      $1T = 1000$      $1ZT = 10000$      $1HT = 100000$   
 $15Z = 150$      $15H = 1500$      $15T = 15000$      $15ZT = 150000$      $15HT = 1500000$

1  $5 \cdot 3H = 15H$                        $7 \cdot 6ZT = 42ZT$                        $9 \cdot 8T = 72T$   
 $5 \cdot 300 = 1500$                        $7 \cdot 60000 = 420000$                        $9 \cdot 8000 = 72000$

2  $9 \cdot 6000 = 54000$                        $4 \cdot 900 = 3600$                        $8 \cdot 40000 = 320000$   
 $7 \cdot 4000 = 28000$                        $9 \cdot 600 = 5400$                        $4 \cdot 80000 = 320000$   
 $4 \cdot 3000 = 12000$                        $5 \cdot 500 = 2500$                        $7 \cdot 90000 = 630000$

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The image shows three lighthouses, each with a different colored top (pink, green, and yellow). Each lighthouse has several horizontal bands, each containing a multiplication problem. The top band of each lighthouse shows a number. The problems are as follows:

Lighthouse	Top Number	Problem 1	Problem 2	Problem 3	Problem 4	Problem 5	Problem 6
1 (Pink)	18000	$18 \cdot 1000$	$180 \cdot 100$	$1800 \cdot 10$	$3 \cdot 6000$	$30 \cdot 600$	$300 \cdot 60$
2 (Green)	180000	$18 \cdot 10000$	$180 \cdot 1000$	$1800 \cdot 100$	$90 \cdot 2000$	$9 \cdot 20000$	$900 \cdot 200$
3 (Yellow)	240000	$240 \cdot 1000$	$24 \cdot 10000$	$24000 \cdot 10$	$6 \cdot 40000$	$400 \cdot 600$	$6000 \cdot 40$