



Löse jede Aufgabe.

8	2	4	3	5	9	1	6	10	7
$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$
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96	24	48	36	60	108	12	72	120	84

4	1	9	6	10	8	5	3	2	7
$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$
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48	12	108	72	120	96	60	36	24	84

6	4	8	1	3	9	10	5	7	2
$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$
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72	48	96	12	36	108	120	60	84	24

6	4	10	1	2	9	8	7	3	5
$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$
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72	48	120	12	24	108	96	84	36	60

8	10	4	6	9	5	1	3	2	7
$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$
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96	120	48	72	108	60	12	36	24	84

12	12	12	12	12	12	12	12	12	12
$\cdot 10$	$\cdot 5$	$\cdot 4$	$\cdot 3$	$\cdot 8$	$\cdot 2$	$\cdot 6$	$\cdot 9$	$\cdot 7$	$\cdot 1$
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120	60	48	36	96	24	72	108	84	12

12	12	12	12	12	12	12	12	12	12
$\cdot 7$	$\cdot 8$	$\cdot 9$	$\cdot 10$	$\cdot 4$	$\cdot 3$	$\cdot 6$	$\cdot 2$	$\cdot 1$	$\cdot 5$
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84	96	108	120	48	36	72	24	12	60

12	12	12	12	12	12	12	12	12	12
$\cdot 3$	$\cdot 1$	$\cdot 9$	$\cdot 6$	$\cdot 4$	$\cdot 8$	$\cdot 5$	$\cdot 2$	$\cdot 7$	$\cdot 10$
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36	12	108	72	48	96	60	24	84	120

12	12	12	12	12	12	12	12	12	12
$\cdot 7$	$\cdot 4$	$\cdot 9$	$\cdot 1$	$\cdot 8$	$\cdot 2$	$\cdot 5$	$\cdot 3$	$\cdot 6$	$\cdot 10$
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84	48	108	12	96	24	60	36	72	120

12	12	12	12	12	12	12	12	12	12
$\cdot 9$	$\cdot 7$	$\cdot 5$	$\cdot 8$	$\cdot 3$	$\cdot 1$	$\cdot 10$	$\cdot 2$	$\cdot 4$	$\cdot 6$
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108	84	60	96	36	12	120	24	48	72



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6	9	8	4	7	3	1	2	10	5
$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$
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72	108	96	48	84	36	12	24	120	60

1	4	10	3	7	2	6	8	9	5
$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$
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12	48	120	36	84	24	72	96	108	60

9	7	4	8	5	1	6	10	2	3
$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$
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108	84	48	96	60	12	72	120	24	36

9	5	2	10	6	7	4	3	1	8
$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$
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108	60	24	120	72	84	48	36	12	96

6	10	3	7	5	8	2	9	4	1
$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$	$\cdot 12$
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72	120	36	84	60	96	24	108	48	12

12	12	12	12	12	12	12	12	12	12
$\cdot 8$	$\cdot 3$	$\cdot 1$	$\cdot 4$	$\cdot 10$	$\cdot 9$	$\cdot 7$	$\cdot 6$	$\cdot 5$	$\cdot 2$
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96	36	12	48	120	108	84	72	60	24

12	12	12	12	12	12	12	12	12	12
$\cdot 6$	$\cdot 5$	$\cdot 2$	$\cdot 8$	$\cdot 3$	$\cdot 9$	$\cdot 7$	$\cdot 1$	$\cdot 4$	$\cdot 10$
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72	60	24	96	36	108	84	12	48	120

12	12	12	12	12	12	12	12	12	12
$\cdot 5$	$\cdot 7$	$\cdot 3$	$\cdot 8$	$\cdot 2$	$\cdot 4$	$\cdot 10$	$\cdot 6$	$\cdot 1$	$\cdot 9$
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60	84	36	96	24	48	120	72	12	108

12	12	12	12	12	12	12	12	12	12
$\cdot 4$	$\cdot 1$	$\cdot 6$	$\cdot 2$	$\cdot 3$	$\cdot 8$	$\cdot 5$	$\cdot 10$	$\cdot 9$	$\cdot 7$
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48	12	72	24	36	96	60	120	108	84

12	12	12	12	12	12	12	12	12	12
$\cdot 6$	$\cdot 8$	$\cdot 7$	$\cdot 4$	$\cdot 10$	$\cdot 2$	$\cdot 5$	$\cdot 3$	$\cdot 1$	$\cdot 9$
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72	96	84	48	120	24	60	36	12	108



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$\frac{1}{\cdot 12}$	$\frac{2}{\cdot 12}$	$\frac{5}{\cdot 12}$	$\frac{4}{\cdot 12}$	$\frac{10}{\cdot 12}$	$\frac{8}{\cdot 12}$	$\frac{7}{\cdot 12}$	$\frac{9}{\cdot 12}$	$\frac{6}{\cdot 12}$	$\frac{3}{\cdot 12}$
12	24	60	48	120	96	84	108	72	36

$\frac{4}{\cdot 12}$	$\frac{2}{\cdot 12}$	$\frac{9}{\cdot 12}$	$\frac{6}{\cdot 12}$	$\frac{5}{\cdot 12}$	$\frac{10}{\cdot 12}$	$\frac{3}{\cdot 12}$	$\frac{1}{\cdot 12}$	$\frac{7}{\cdot 12}$	$\frac{8}{\cdot 12}$
48	24	108	72	60	120	36	12	84	96

$\frac{1}{\cdot 12}$	$\frac{4}{\cdot 12}$	$\frac{3}{\cdot 12}$	$\frac{5}{\cdot 12}$	$\frac{7}{\cdot 12}$	$\frac{2}{\cdot 12}$	$\frac{10}{\cdot 12}$	$\frac{9}{\cdot 12}$	$\frac{6}{\cdot 12}$	$\frac{8}{\cdot 12}$
12	48	36	60	84	24	120	108	72	96

$\frac{2}{\cdot 12}$	$\frac{5}{\cdot 12}$	$\frac{3}{\cdot 12}$	$\frac{4}{\cdot 12}$	$\frac{10}{\cdot 12}$	$\frac{8}{\cdot 12}$	$\frac{6}{\cdot 12}$	$\frac{7}{\cdot 12}$	$\frac{9}{\cdot 12}$	$\frac{1}{\cdot 12}$
24	60	36	48	120	96	72	84	108	12

$\frac{4}{\cdot 12}$	$\frac{5}{\cdot 12}$	$\frac{3}{\cdot 12}$	$\frac{1}{\cdot 12}$	$\frac{8}{\cdot 12}$	$\frac{6}{\cdot 12}$	$\frac{9}{\cdot 12}$	$\frac{10}{\cdot 12}$	$\frac{2}{\cdot 12}$	$\frac{7}{\cdot 12}$
48	60	36	12	96	72	108	120	24	84

$\frac{12}{\cdot 2}$	$\frac{12}{\cdot 7}$	$\frac{12}{\cdot 3}$	$\frac{12}{\cdot 5}$	$\frac{12}{\cdot 1}$	$\frac{12}{\cdot 6}$	$\frac{12}{\cdot 9}$	$\frac{12}{\cdot 4}$	$\frac{12}{\cdot 10}$	$\frac{12}{\cdot 8}$
24	84	36	60	12	72	108	48	120	96

$\frac{12}{\cdot 7}$	$\frac{12}{\cdot 10}$	$\frac{12}{\cdot 6}$	$\frac{12}{\cdot 9}$	$\frac{12}{\cdot 3}$	$\frac{12}{\cdot 4}$	$\frac{12}{\cdot 5}$	$\frac{12}{\cdot 1}$	$\frac{12}{\cdot 8}$	$\frac{12}{\cdot 2}$
84	120	72	108	36	48	60	12	96	24

$\frac{12}{\cdot 10}$	$\frac{12}{\cdot 3}$	$\frac{12}{\cdot 4}$	$\frac{12}{\cdot 8}$	$\frac{12}{\cdot 2}$	$\frac{12}{\cdot 1}$	$\frac{12}{\cdot 6}$	$\frac{12}{\cdot 7}$	$\frac{12}{\cdot 9}$	$\frac{12}{\cdot 5}$
120	36	48	96	24	12	72	84	108	60

$\frac{12}{\cdot 9}$	$\frac{12}{\cdot 4}$	$\frac{12}{\cdot 2}$	$\frac{12}{\cdot 5}$	$\frac{12}{\cdot 6}$	$\frac{12}{\cdot 3}$	$\frac{12}{\cdot 8}$	$\frac{12}{\cdot 10}$	$\frac{12}{\cdot 7}$	$\frac{12}{\cdot 1}$
108	48	24	60	72	36	96	120	84	12

$\frac{12}{\cdot 5}$	$\frac{12}{\cdot 8}$	$\frac{12}{\cdot 3}$	$\frac{12}{\cdot 1}$	$\frac{12}{\cdot 6}$	$\frac{12}{\cdot 2}$	$\frac{12}{\cdot 9}$	$\frac{12}{\cdot 7}$	$\frac{12}{\cdot 10}$	$\frac{12}{\cdot 4}$
60	96	36	12	72	24	108	84	120	48



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1	9	5	10	7	4	8	3	2	6
$\frac{\cdot 12}{12}$	$\frac{\cdot 12}{108}$	$\frac{\cdot 12}{60}$	$\frac{\cdot 12}{120}$	$\frac{\cdot 12}{84}$	$\frac{\cdot 12}{48}$	$\frac{\cdot 12}{96}$	$\frac{\cdot 12}{36}$	$\frac{\cdot 12}{24}$	$\frac{\cdot 12}{72}$

4	3	9	8	6	7	2	1	10	5
$\frac{\cdot 12}{48}$	$\frac{\cdot 12}{36}$	$\frac{\cdot 12}{108}$	$\frac{\cdot 12}{96}$	$\frac{\cdot 12}{72}$	$\frac{\cdot 12}{84}$	$\frac{\cdot 12}{24}$	$\frac{\cdot 12}{12}$	$\frac{\cdot 12}{120}$	$\frac{\cdot 12}{60}$

8	2	9	10	1	7	5	4	6	3
$\frac{\cdot 12}{96}$	$\frac{\cdot 12}{24}$	$\frac{\cdot 12}{108}$	$\frac{\cdot 12}{120}$	$\frac{\cdot 12}{12}$	$\frac{\cdot 12}{84}$	$\frac{\cdot 12}{60}$	$\frac{\cdot 12}{48}$	$\frac{\cdot 12}{72}$	$\frac{\cdot 12}{36}$

2	7	8	5	1	6	9	10	4	3
$\frac{\cdot 12}{24}$	$\frac{\cdot 12}{84}$	$\frac{\cdot 12}{96}$	$\frac{\cdot 12}{60}$	$\frac{\cdot 12}{12}$	$\frac{\cdot 12}{72}$	$\frac{\cdot 12}{108}$	$\frac{\cdot 12}{120}$	$\frac{\cdot 12}{48}$	$\frac{\cdot 12}{36}$

8	3	7	9	2	4	10	5	6	1
$\frac{\cdot 12}{96}$	$\frac{\cdot 12}{36}$	$\frac{\cdot 12}{84}$	$\frac{\cdot 12}{108}$	$\frac{\cdot 12}{24}$	$\frac{\cdot 12}{48}$	$\frac{\cdot 12}{120}$	$\frac{\cdot 12}{60}$	$\frac{\cdot 12}{72}$	$\frac{\cdot 12}{12}$

12	12	12	12	12	12	12	12	12	12
$\frac{\cdot 7}{84}$	$\frac{\cdot 4}{48}$	$\frac{\cdot 9}{108}$	$\frac{\cdot 1}{12}$	$\frac{\cdot 6}{72}$	$\frac{\cdot 10}{120}$	$\frac{\cdot 8}{96}$	$\frac{\cdot 2}{24}$	$\frac{\cdot 5}{60}$	$\frac{\cdot 3}{36}$

12	12	12	12	12	12	12	12	12	12
$\frac{\cdot 10}{120}$	$\frac{\cdot 6}{72}$	$\frac{\cdot 2}{24}$	$\frac{\cdot 7}{84}$	$\frac{\cdot 9}{108}$	$\frac{\cdot 8}{96}$	$\frac{\cdot 4}{48}$	$\frac{\cdot 3}{36}$	$\frac{\cdot 1}{12}$	$\frac{\cdot 5}{60}$

12	12	12	12	12	12	12	12	12	12
$\frac{\cdot 6}{72}$	$\frac{\cdot 2}{24}$	$\frac{\cdot 10}{120}$	$\frac{\cdot 5}{60}$	$\frac{\cdot 9}{108}$	$\frac{\cdot 3}{36}$	$\frac{\cdot 1}{12}$	$\frac{\cdot 8}{96}$	$\frac{\cdot 4}{48}$	$\frac{\cdot 7}{84}$

12	12	12	12	12	12	12	12	12	12
$\frac{\cdot 5}{60}$	$\frac{\cdot 1}{12}$	$\frac{\cdot 3}{36}$	$\frac{\cdot 4}{48}$	$\frac{\cdot 10}{120}$	$\frac{\cdot 7}{84}$	$\frac{\cdot 9}{108}$	$\frac{\cdot 2}{24}$	$\frac{\cdot 8}{96}$	$\frac{\cdot 6}{72}$

12	12	12	12	12	12	12	12	12	12
$\frac{\cdot 3}{36}$	$\frac{\cdot 5}{60}$	$\frac{\cdot 6}{72}$	$\frac{\cdot 8}{96}$	$\frac{\cdot 7}{84}$	$\frac{\cdot 2}{24}$	$\frac{\cdot 9}{108}$	$\frac{\cdot 10}{120}$	$\frac{\cdot 1}{12}$	$\frac{\cdot 4}{48}$