



Key Vocabulary
times tables
multiply by
divide by
array
fact families
regrouping
multiplication
division
inverse

Multiplication and Division Facts (3, 4 and 8 multiplication tables)

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

3 x Tables

- $1 \times 3 = 3$
- $2 \times 3 = 6$
- $3 \times 3 = 9$
- $4 \times 3 = 12$
- $5 \times 3 = 15$
- $6 \times 3 = 18$
- $7 \times 3 = 21$
- $8 \times 3 = 24$
- $9 \times 3 = 27$
- $10 \times 3 = 30$
- $11 \times 3 = 33$
- $12 \times 3 = 36$

- $3 + 3 = 1$
- $6 + 3 = 2$
- $9 + 3 = 3$
- $12 + 3 = 4$
- $15 + 3 = 5$
- $18 + 3 = 6$
- $21 + 3 = 7$
- $24 + 3 = 8$
- $27 + 3 = 9$
- $30 + 3 = 10$
- $33 + 3 = 11$
- $36 + 3 = 12$

4 x Tables

- $1 \times 4 = 4$
- $2 \times 4 = 8$
- $3 \times 4 = 12$
- $4 \times 4 = 16$
- $5 \times 4 = 20$
- $6 \times 4 = 24$
- $7 \times 4 = 28$
- $8 \times 4 = 32$
- $9 \times 4 = 36$
- $10 \times 4 = 40$
- $11 \times 4 = 44$
- $12 \times 4 = 48$

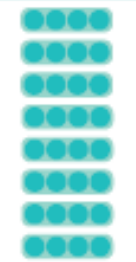



- $4 + 4 = 1$
- $8 + 4 = 2$
- $12 + 4 = 3$
- $16 + 4 = 4$
- $20 + 4 = 5$
- $24 + 4 = 6$
- $28 + 4 = 7$
- $32 + 4 = 8$
- $36 + 4 = 9$
- $40 + 4 = 10$
- $44 + 4 = 11$
- $48 + 4 = 12$

8 x Tables



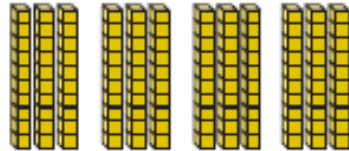
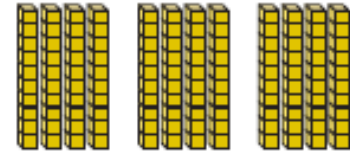
- $1 \times 8 = 8$
- $2 \times 8 = 16$
- $3 \times 8 = 24$
- $4 \times 8 = 32$
- $5 \times 8 = 40$
- $6 \times 8 = 48$
- $7 \times 8 = 56$
- $8 \times 8 = 64$
- $9 \times 8 = 72$
- $10 \times 8 = 80$
- $11 \times 8 = 88$
- $12 \times 8 = 96$

- $8 + 8 = 1$
- $16 + 8 = 2$
- $24 + 8 = 3$
- $32 + 8 = 4$
- $40 + 8 = 5$
- $48 + 8 = 6$
- $56 + 8 = 7$
- $64 + 8 = 8$
- $72 + 8 = 9$
- $80 + 8 = 10$
- $88 + 8 = 11$
- $96 + 8 = 12$

Write and Calculate Mathematical Statements

$4 \times 8 = 32$ $32 \div 8 = 4$ 	$8 \times 4 = 32$ $32 \div 4 = 8$ 	$5 \times 3 = 15$ $15 \div 3 = 5$ 	$3 \times 5 = 15$ $15 \div 5 = 3$ 
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Related Calculations

$3 \times 4 = 12$ 	$4 \times 3 = 12$ 
$30 \times 4 = 120$ 	$40 \times 3 = 120$ 



Written Multiplication Methods - No Regrouping			Written Multiplication Methods - With Regrouping																																
Tens	Ones	$23 \times 3 = 69$	Tens	Ones	$24 \times 4 = 96$																														
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×		4																																	
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Written Division Methods - No Regrouping			Written Division Methods - With Regrouping																																
Tens	Ones	$84 \div 4$	Tens	Ones	$45 \div 3$																														
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$128 \div 4$. What methods could you use to help you calculate this? Can you use known facts?

If you know 3×4 , what can you tell me about 30×4 ? 30×40 ? What is the same and what is different about these calculations?