



Year 3 – Maths – Multiplication and Division

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Key vocabulary

times tables

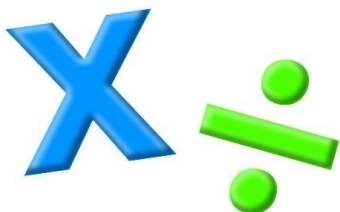
multiply by

divide by

array

fact families

regrouping



Multiplication and division facts

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

$1 \times 3 = 3$

$2 \times 3 = 6$

$3 \times 3 = 9$

$4 \times 3 = 12$

$5 \times 3 = 15$

$6 \times 3 = 18$

$7 \times 3 = 21$

$8 \times 3 = 24$

$9 \times 3 = 27$

$10 \times 3 = 30$

$11 \times 3 = 33$

$12 \times 3 = 36$

$3 \div 3 = 1$

$6 \div 3 = 2$

$9 \div 3 = 3$

$12 \div 3 = 4$

$15 \div 3 = 5$

$18 \div 3 = 6$

$21 \div 3 = 7$

$24 \div 3 = 8$

$27 \div 3 = 9$

$30 \div 3 = 10$

$33 \div 3 = 11$

$36 \div 3 = 12$

4 x Tables

$1 \times 4 = 4$

$2 \times 4 = 8$

$3 \times 4 = 12$

$4 \times 4 = 16$

$5 \times 4 = 20$

$6 \times 4 = 24$

$7 \times 4 = 28$

$8 \times 4 = 32$

$9 \times 4 = 36$

$10 \times 4 = 40$

$11 \times 4 = 44$

$12 \times 4 = 48$

$4 \div 4 = 1$

$8 \div 4 = 2$

$12 \div 4 = 3$

$16 \div 4 = 4$

$20 \div 4 = 5$

$24 \div 4 = 6$

$28 \div 4 = 7$

$32 \div 4 = 8$

$36 \div 4 = 9$

$40 \div 4 = 10$

$44 \div 4 = 11$

$48 \div 4 = 12$

8 x Tables

$1 \times 8 = 8$

$2 \times 8 = 16$

$3 \times 8 = 24$

$4 \times 8 = 32$

$5 \times 8 = 40$

$6 \times 8 = 48$

$7 \times 8 = 56$

$8 \times 8 = 64$

$9 \times 8 = 72$

$10 \times 8 = 80$

$11 \times 8 = 88$

$12 \times 8 = 96$

$8 \div 8 = 1$

$16 \div 8 = 2$

$24 \div 8 = 3$

$32 \div 8 = 4$

$40 \div 8 = 5$

$48 \div 8 = 6$

$56 \div 8 = 7$

$64 \div 8 = 8$

$72 \div 8 = 9$

$80 \div 8 = 10$

$88 \div 8 = 11$

$96 \div 8 = 12$

Key questions

Can you count forwards in 3s starting at...?

Can you count backwards in 4s starting at...?

Multiply ____ by ____.

Divide ____ by ____.

Use an array to show ____ divided by ____.

The answer 36. What is the multiplication?

Links to other learning

Year 2 – Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables; Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ($\times$), division ($\div$) and equals (=) signs; Show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot.

Year 4 – Recall multiplication and division facts for multiplication tables up to 12×12 ; Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers; Recognise and use factor pairs and commutativity in mental calculations; Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.

Written multiplication methods – no regrouping

Tens	Ones

$23 \times 3 = 69$

	T	O
	2	3
$\times$		3
	6	9

Written multiplication methods – with regrouping

Tens	Ones

$24 \times 4 = 96$

	T	O
	2	4
$\times$		4
	9	6
	1	

Written division methods – no regrouping

Tens	Ones

$84 \div 4$

	2	1
4	8	4

$80 \div 4$ $4 \div 4$

Written division methods – with regrouping

Tens	Ones

$45 \div 3$

	1	5
3	4	5

$30 \div 3$ $15 \div 3$