

Overview

In multiplication and division, we learn to:

- Consolidate 2, 4 and 8 Times Tables
- Comparing Statements
- Related Calculations
- Multiply 2 Digits by 1 Digit
- Divide 2 Digits by 1 Digit
- Scaling
- How Many Ways?



MULTIPLICATION DIVISION

Multiplication and Division is useful learning because it is used in many areas of everyday life – e.g. shopping, cooking, or playing games. It also forms the basis for lots of other maths ideas.

Written Multiplication and Division Methods

Multiplication – No Regrouping

T	O
3	4
×	2
6	8

- Start by multiplying ones from the 2-digit number with the 1-digit number (4×2)
- Then, multiply the tens from the 2-digit number with the 1-digit number (3×2).

Division – No Regrouping

	Tens	Ones
	2	1
4	8	4

- Divide the tens by the number outside the bus stop ($8 \div 4 = 2$).
- Divide the ones by the number outside the bus stop ($4 \div 4 = 1$)

Multiplication – With Regrouping

1	T	O
	2	5
	×	3
	7	5

- Here, the resulting number from the first calculation is 10 or more (e.g. $5 \times 3 = 15$). So, place the ones (5) in the ones column and the tens (1) above the tens column. Add the carried number to the next calculation ($2 \times 3 = 6$, $6 + 1 = 7$).

Division – With Regrouping

	Tens	Ones
	1	5
3	4	15

- $4 \div 3 = 1$ with 1 remainder. This remainder is placed in the next column before the next number. The next sum therefore becomes $15 \div 3 = 5$.

3, 4 and 8 Times Tables

X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

÷3
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

3 Times Table

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

X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

÷4
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

4 Times Table

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

X	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

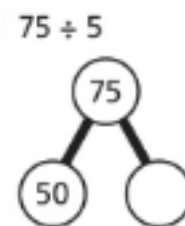
÷8
8 ÷ 8 = 1
16 ÷ 8 = 2
24 ÷ 8 = 3
32 ÷ 8 = 4
40 ÷ 8 = 5
48 ÷ 8 = 6
56 ÷ 8 = 7
64 ÷ 8 = 8
72 ÷ 8 = 9
80 ÷ 8 = 10
88 ÷ 8 = 11
96 ÷ 8 = 12

8 Times Table

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

Flexible Division

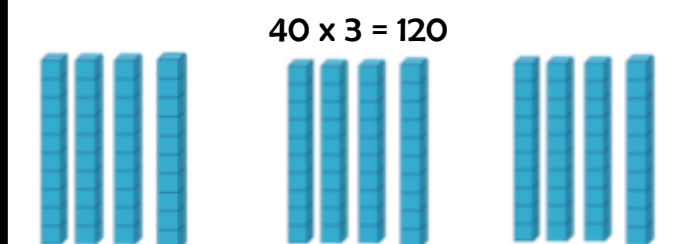
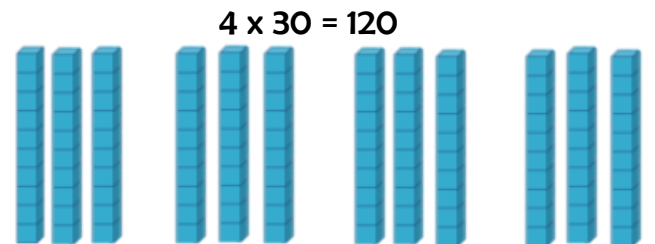
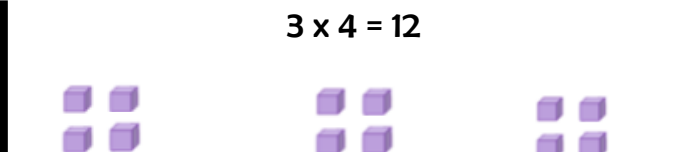
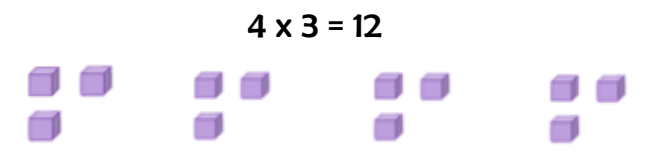
We can use flexible division including part-part whole.



$10 \times 5 = 50$
 $5 \times 5 = 25$

Related Calculations

We can use our understanding of times tables and number relationships to work out other multiplication sums.



Key Vocabulary

Times Tables

Multiply

Divide

Fact Families

Regrouping

Arrays

3 times tables

4 times tables

8 times tables