

Broadmayne First School Knowledge Organiser

Maths Focus

Multiplication and Division

Year 3

Spring Term 1

Multiplication Vocabulary

Division Vocabulary

Times tables

Times tables

Multiply by

Divide by

multiple

sharing

array

grouping

product

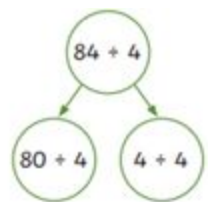
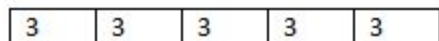
regrouping
estimate

fact families
calculate

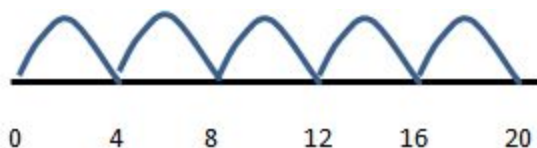
Inverse
equation/calculation

Bar Modelling and Part, Part Whole

A bar model and Part, Part, Whole show our understanding of a problem and how it could be solved.



Using a Number Line

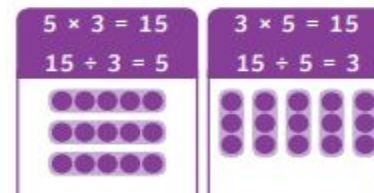
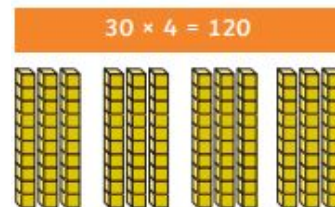


Times tables

3 x Tables	4 x Tables	8 x Tables
1 x 3 = 3 2 x 3 = 6 3 x 3 = 9 4 x 3 = 12 5 x 3 = 15 6 x 3 = 18 7 x 3 = 21 8 x 3 = 24 9 x 3 = 27 10 x 3 = 30 11 x 3 = 33 12 x 3 = 36	1 x 4 = 4 2 x 4 = 8 3 x 4 = 12 4 x 4 = 16 5 x 4 = 20 6 x 4 = 24 7 x 4 = 28 8 x 4 = 32 9 x 4 = 36 10 x 4 = 40 11 x 4 = 44 12 x 4 = 48	1 x 8 = 8 2 x 8 = 16 3 x 8 = 24 4 x 8 = 32 5 x 8 = 40 6 x 8 = 48 7 x 8 = 56 8 x 8 = 64 9 x 8 = 72 10 x 8 = 80 11 x 8 = 88 12 x 8 = 96

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

Methods of calculating using equipment



Written method

X with regrouping	÷ with regrouping
$\begin{array}{r} \text{T} \quad \text{O} \\ 2 \quad 4 \\ \times \quad 4 \\ \hline 1 \quad 6 \\ 8 \quad 0 \\ 9 \quad 6 \end{array}$	$\begin{array}{r} 1 \quad 5 \\ 3 \overline{) 4 \quad 5} \\ \underline{3 \quad 0} \quad (10 \times 3) \\ 1 \quad 5 \\ \underline{1 \quad 5} \quad (5 \times 3) \\ 0 \end{array}$

