Division/Multiplication

L.I: To write and calculate mathematical statements for multiplication and division using the multiplication tables that you know

Inverse operations are opposite operations.
Division is the inverse of multiplication.
So, when you know your times tables well, you can use this knowledge to solve simple division problems.
For example, if you know

7 x 3 = 21

Then

21 ÷ 3 = 7   or   21 ÷ 7 = 3

Useful video: https://www.bbc.co.uk/teach/class-clips-video/maths-ks1--ks2-the-relationship-between-multiplication-and-division/zdqb47h

A Gorgeous Palace

In Act IV, Scene 1, Prospero describes the vision to Ferdinand and Miranda 'The cloud-capped towers, the gorgeous palaces, The solemn temples…'

Now Miranda decides she likes the sound of a 'gorgeous palace' and researches what materials she would need where. Can you help her using your knowledge of times tables?

49 stones into 7 rooms How many stones in each room?	**? Multiplication Fact** **7 x ☐ = 49**	How many stones in each room?

If you're really stuck, use the multiplication grid on the last page to help you.
Once you've solved all the problems, keep the multiplication grid and keep practising your times tables! They are super helpful to know!

Task 1: **Complete the division problems, using your multiplication knowledge**

25 candles into 5 rooms How many candles in each room?	**? Multiplication Fact** **5 x = 25**	How many stones in each room?
21 flowers into 3 rooms How many flowers in each room?	**? Multiplication Fact** **3 x = 21**	How many flowers in each room?
66 books into 6 rooms How many books in each room?	**? Multiplication Fact** **6 x = 66**	How many books in each room?
60 cushions into 5 rooms How many cushions in each room?	**? Multiplication Fact** **5 x = 60**	How many cushions in each room?
100 sculptures into 10 rooms How many sculptures in each room?	**? Multiplication Fact** **10 x = 100**	How many sculptures in each room?
18 paintings into 6 rooms How many paintings in each room?	**? Multiplication Fact** **6 x = 18**	How many paintings in each room?
15 mirrors into 3 rooms How many mirrors in each room?	**? Multiplication Fact** **3 x = 15**	How many mirrors in each room?
32 shelves into 8 rooms How many shelves in each room?	**? Multiplication Fact** **8 x = 32**	How many shelves in each room?

The Primary Shakespeare Company

Task 2: **Now write ALL the multiplication fact, using the known numbers**

|		
48 vases into 8 rooms How many candles in each room?	**? Multiplication Fact** **X =**	How many vases in each room?
81 rugs into 9 rooms How many flowers in each room?	**? Multiplication Fact** **X =**	How many rugs in each room?
132 books into 12 rooms How many books in each room?	**? Multiplication Fact** **X =**	How many books in each room?
60 crystal glasses into 5 rooms How many glasses in each room?	**? Multiplication Fact** **X =**	How many glasses in each room?

Task 3: **Now make up your own division word problems and solve them using the inverse, 'multiplication':**
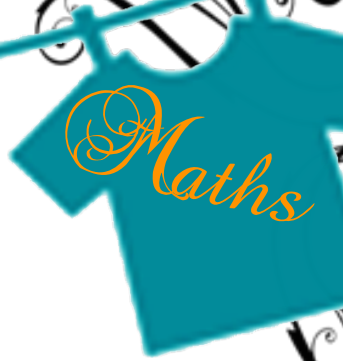
Multiplication Grid

×	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

Maths