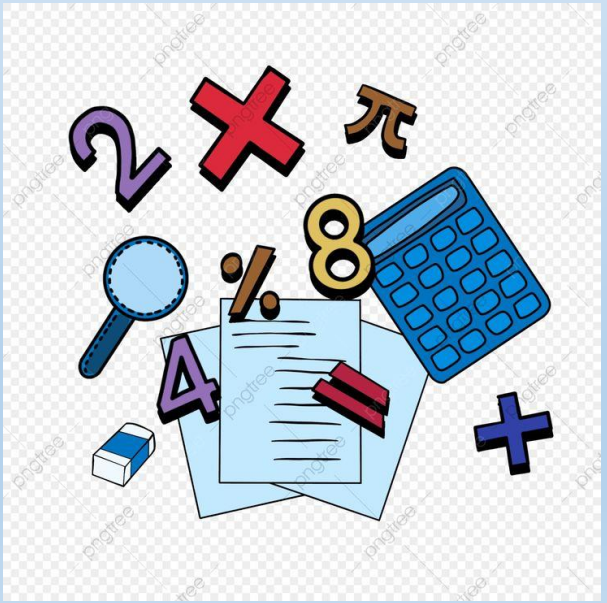
Welcome to Lower Key Stage 2 Maths Session

Helping you to understand how maths is taught in Colerne C of E Primary School

Session Aims:

- Attitude
- Resources
- Overview of the core National Curriculum learning across Year 3 & 4.
- 4 calculation methods progression.
- Times Tables
- Doodlemaths
- Games to play at home
- Any questions.

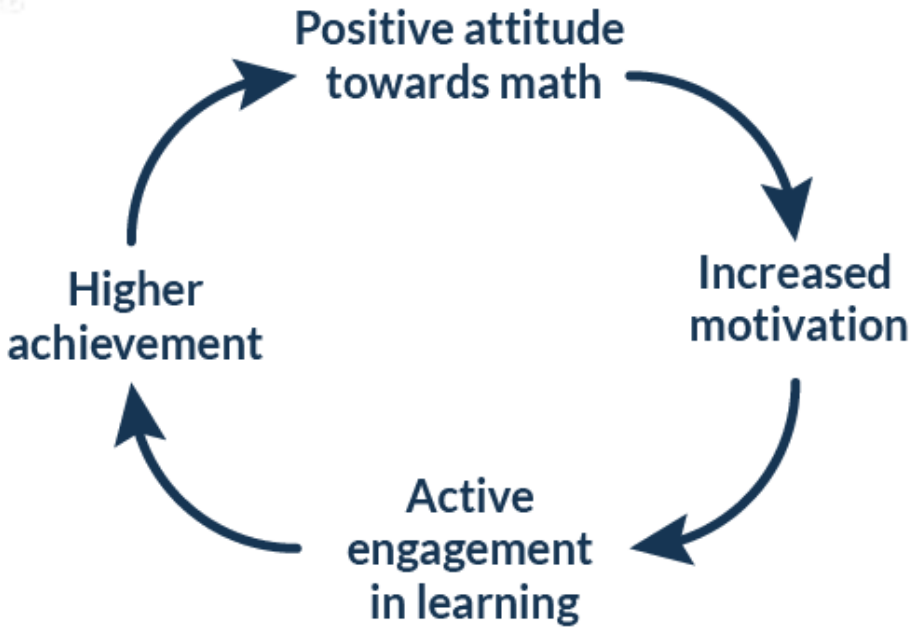


Why a

is Key in Learning

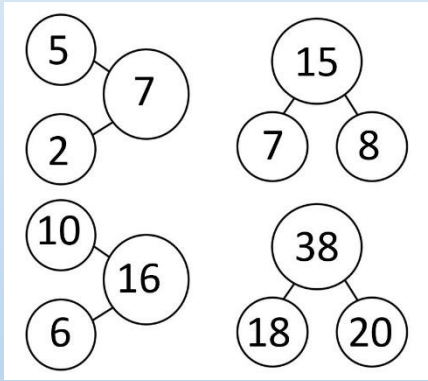
Good *Mathematics*
is *not about* how many
answers you know...
It's how you *behave*
when you don't know.

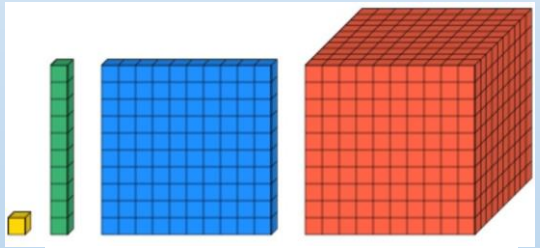
www.mathrider.com

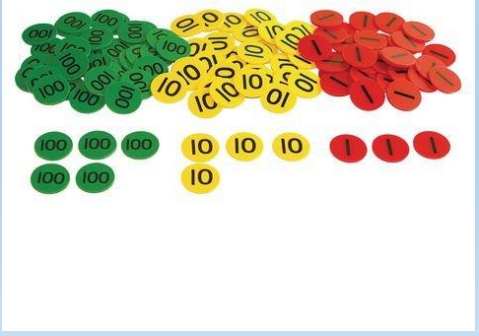


Resources in the classroom

- Number lines – on table and wall
- Number & times table squares – in books and trays
- Dienes blocks
- Place value counters
- Arrow cards
- Part-Part Whole models
- Fraction walls

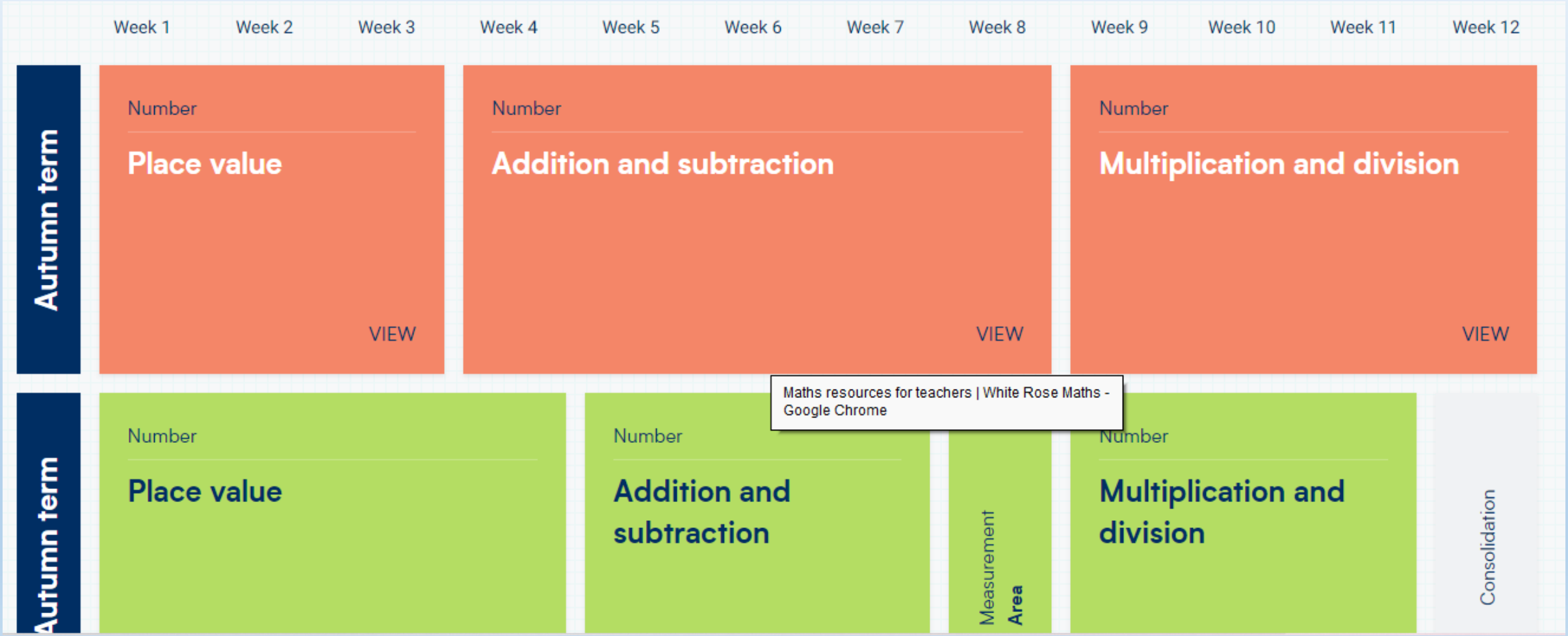




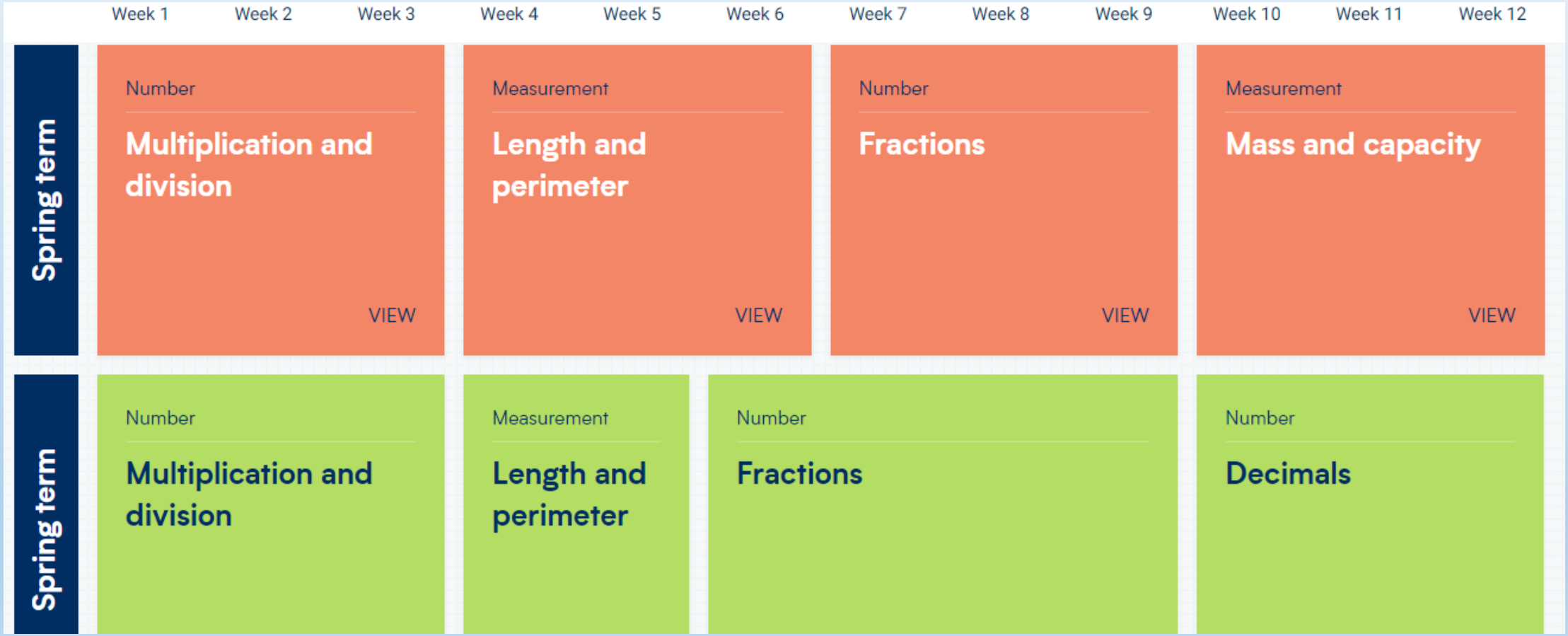


Core Learning

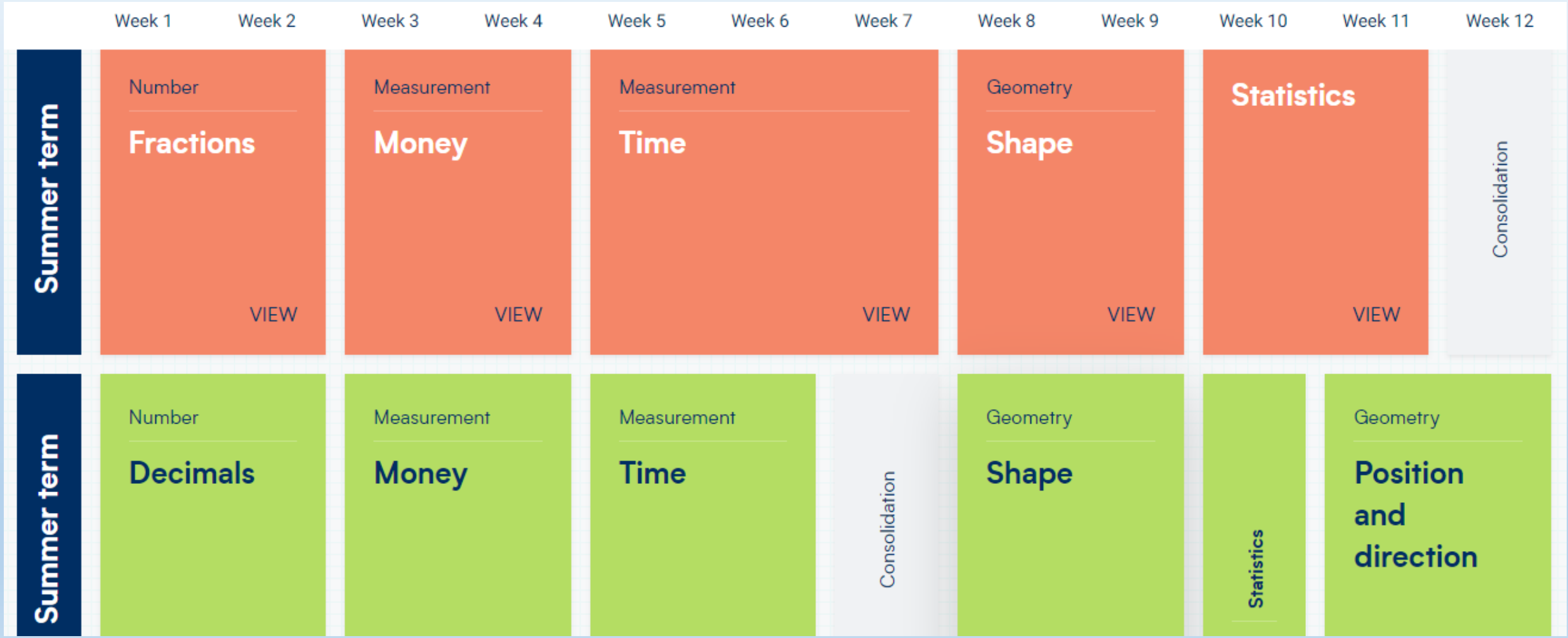
Year 3 & 4 Autumn Overview



Year 3 & 4 Spring Overview



Year 3 & 4 Summer Overview



Recapping knowledge and learning

Year 3 example

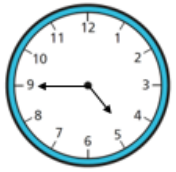
Flashback 4 — Year 3 | Week 1 | Day 3

3×10

1) $59 = 9 +$ ☐

2) How many hours are there in 1 day?

3) Write the time shown on the clock.



4) $80 = 100 -$ ☐

White Rose Maths

Year 4 example

Flashback 4 — Year 4 | Week 3 | Day 3

3×6

1) Use <, > or = to compare the numbers.

5,455 ◯ 4,555

2) Partition 5,387 into thousands, hundreds, tens and ones.

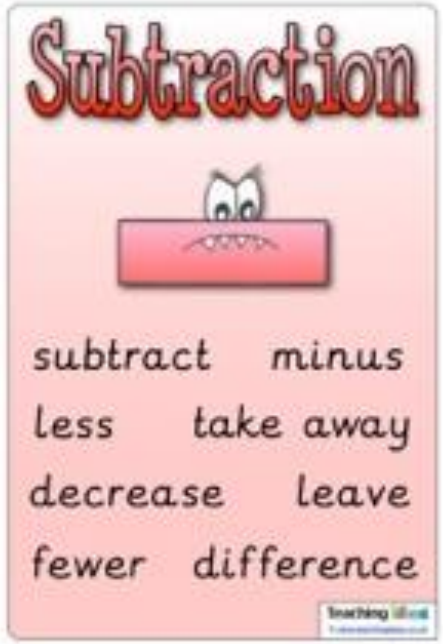
3) How many more children walked than travelled by car?

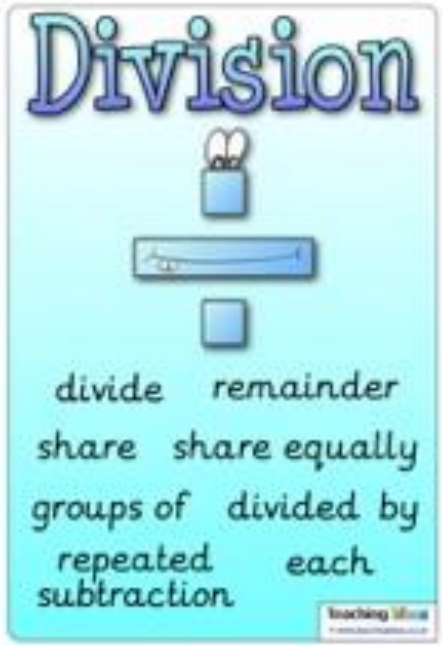
4) How many hours are there in 2 days?

White Rose Maths

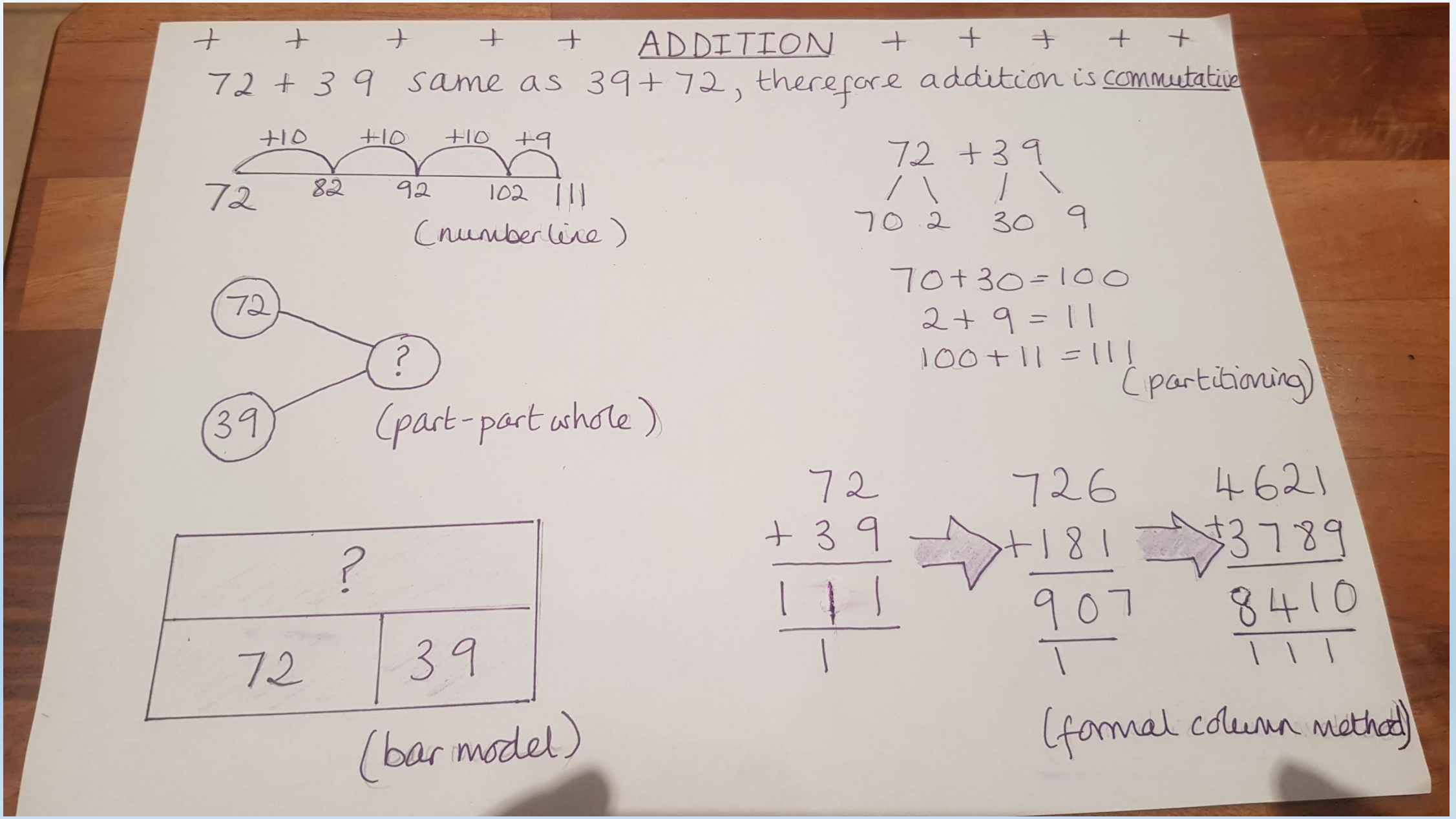
Brain break!

The 4 operations

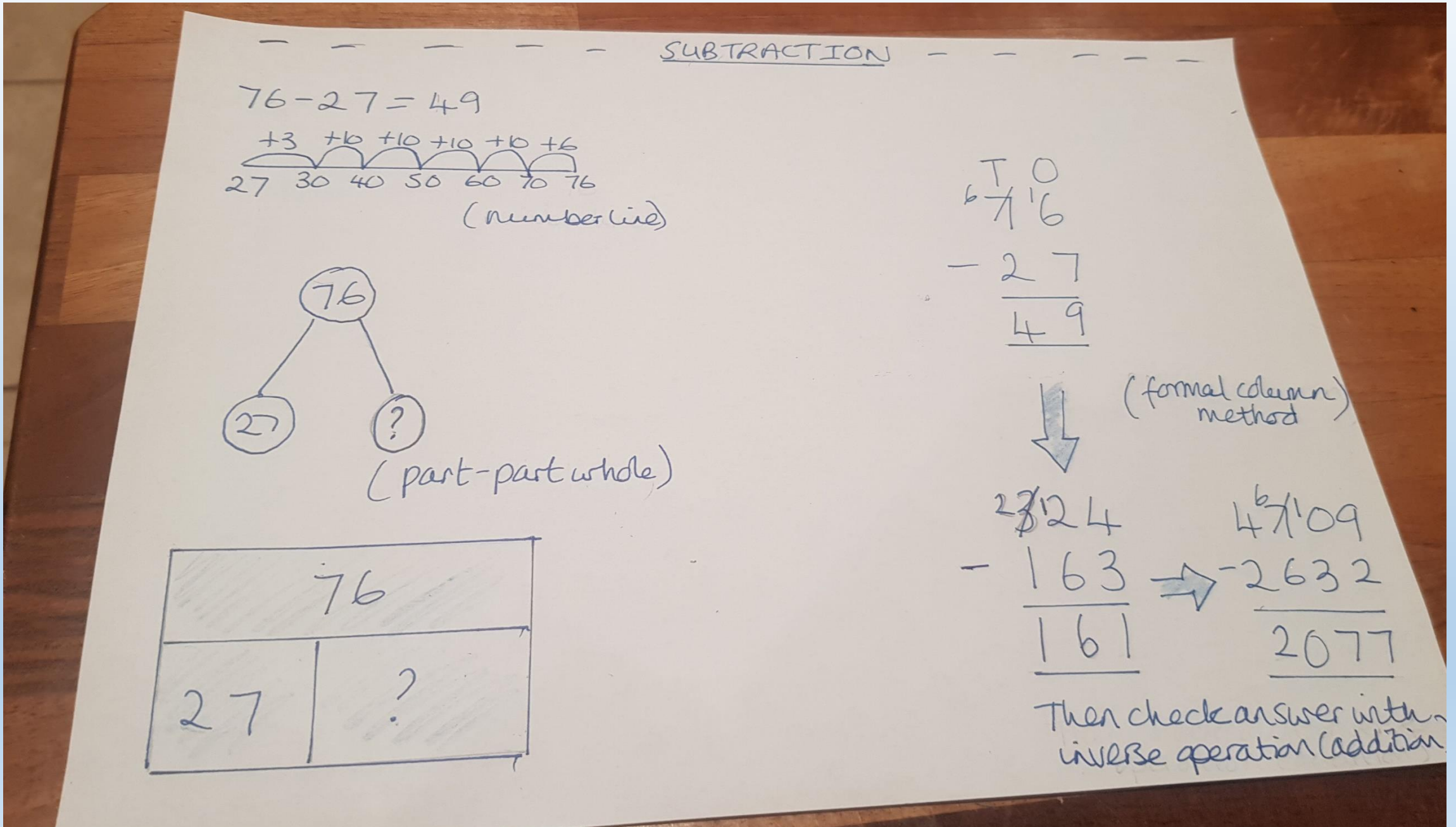




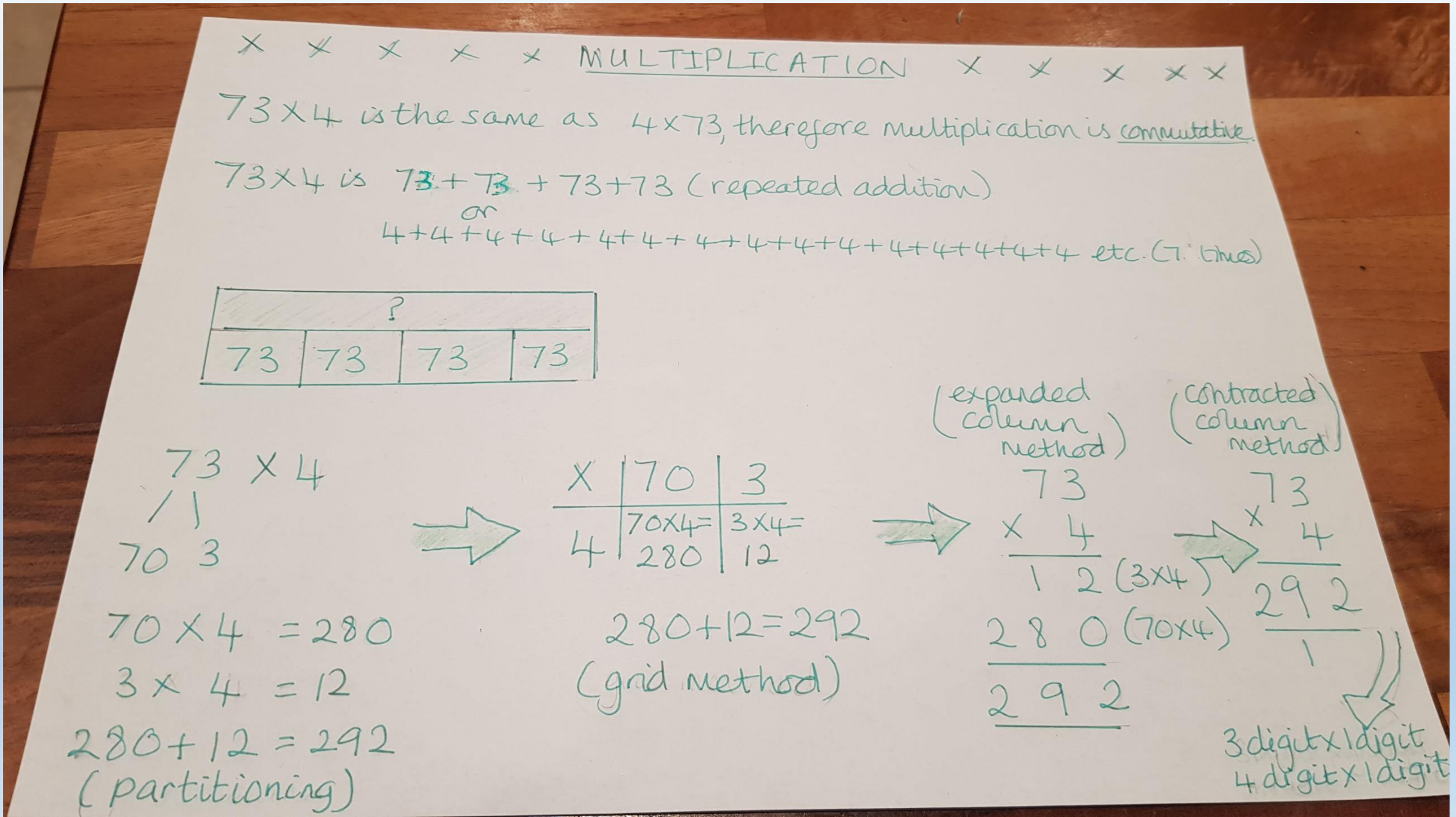
Addition Methods



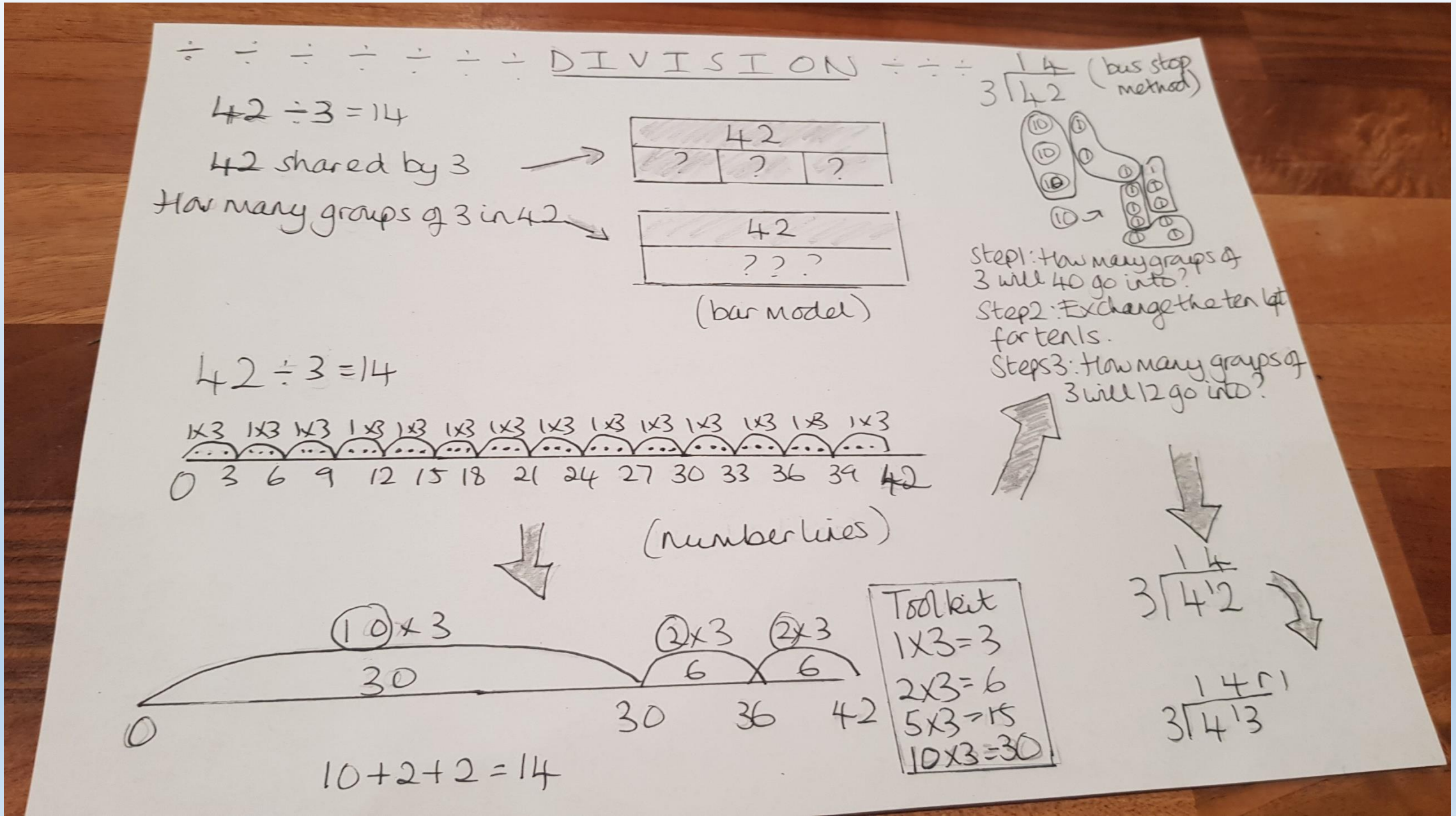
Subtraction Methods



Multiplication Methods



Division Methods



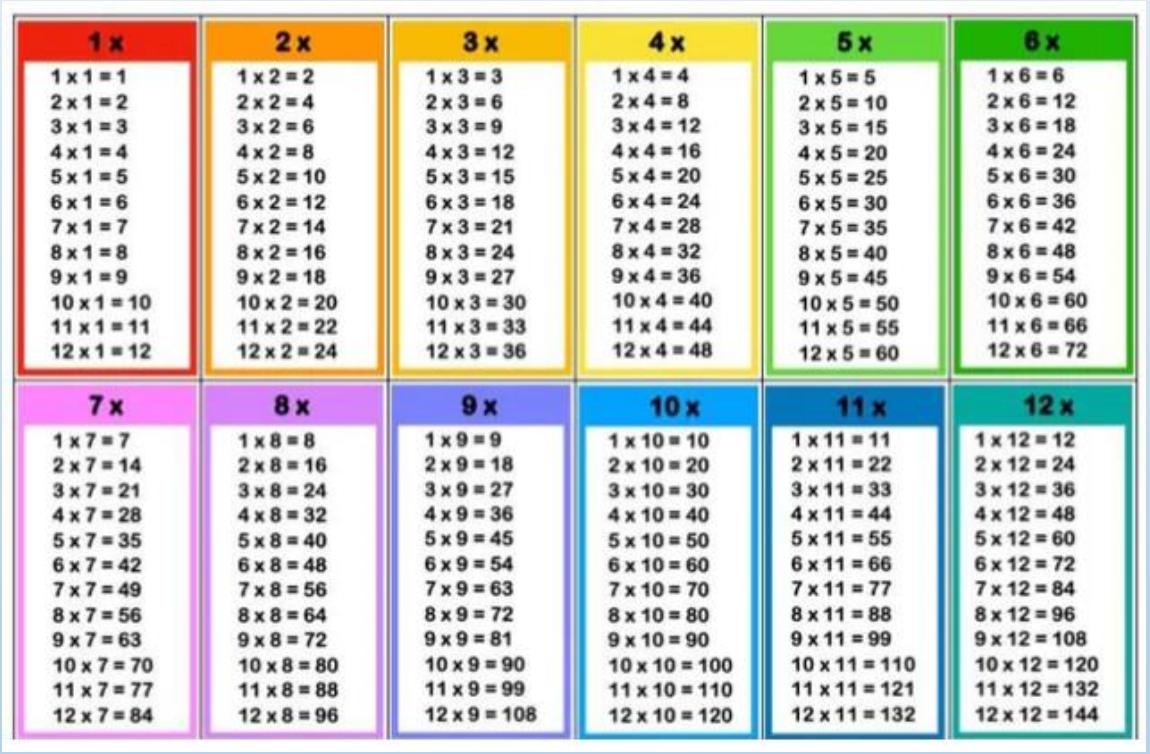
Arithmetic half papers and full papers

- Once children are becoming confident in the 4 calculation methods we keep skills sharp by setting weekly arithmetic papers.

- The results are shared with the children and we then work through the papers together to explore misconceptions and support the children.

Times tables

- **Year 1**: count in multiples of 2, 5 and 10.
- **Year 2**: be able to remember and use multiplication and division facts for the **2, 5 and 10** multiplication tables, including recognising odd and even numbers.
- **Year 3**: be able to remember and use multiplication and division facts for the **3, 4 and 8** multiplication tables, including recognising odd and even numbers.
- **Year 4**: be able to remember and use multiplication and division facts for the multiplication tables up to **12 x 12**.
- **Year 5**: revision of all multiplication and division facts for the multiplication tables up to **12 x 12**.
- **Year 6**: revision of all multiplication and division facts for the multiplication tables up to **12 x 12**.



1 x	2 x	3 x	4 x	5 x	6 x
1 x 1 = 1	1 x 2 = 2	1 x 3 = 3	1 x 4 = 4	1 x 5 = 5	1 x 6 = 6
2 x 1 = 2	2 x 2 = 4	2 x 3 = 6	2 x 4 = 8	2 x 5 = 10	2 x 6 = 12
3 x 1 = 3	3 x 2 = 6	3 x 3 = 9	3 x 4 = 12	3 x 5 = 15	3 x 6 = 18
4 x 1 = 4	4 x 2 = 8	4 x 3 = 12	4 x 4 = 16	4 x 5 = 20	4 x 6 = 24
5 x 1 = 5	5 x 2 = 10	5 x 3 = 15	5 x 4 = 20	5 x 5 = 25	5 x 6 = 30
6 x 1 = 6	6 x 2 = 12	6 x 3 = 18	6 x 4 = 24	6 x 5 = 30	6 x 6 = 36
7 x 1 = 7	7 x 2 = 14	7 x 3 = 21	7 x 4 = 28	7 x 5 = 35	7 x 6 = 42
8 x 1 = 8	8 x 2 = 16	8 x 3 = 24	8 x 4 = 32	8 x 5 = 40	8 x 6 = 48
9 x 1 = 9	9 x 2 = 18	9 x 3 = 27	9 x 4 = 36	9 x 5 = 45	9 x 6 = 54
10 x 1 = 10	10 x 2 = 20	10 x 3 = 30	10 x 4 = 40	10 x 5 = 50	10 x 6 = 60
11 x 1 = 11	11 x 2 = 22	11 x 3 = 33	11 x 4 = 44	11 x 5 = 55	11 x 6 = 66
12 x 1 = 12	12 x 2 = 24	12 x 3 = 36	12 x 4 = 48	12 x 5 = 60	12 x 6 = 72

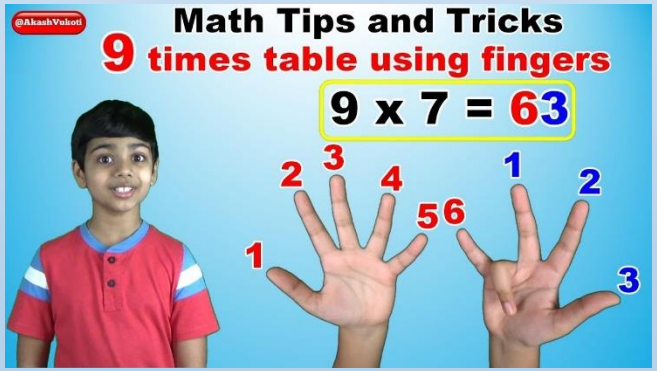
7 x	8 x	9 x	10 x	11 x	12 x
1 x 7 = 7	1 x 8 = 8	1 x 9 = 9	1 x 10 = 10	1 x 11 = 11	1 x 12 = 12
2 x 7 = 14	2 x 8 = 16	2 x 9 = 18	2 x 10 = 20	2 x 11 = 22	2 x 12 = 24
3 x 7 = 21	3 x 8 = 24	3 x 9 = 27	3 x 10 = 30	3 x 11 = 33	3 x 12 = 36
4 x 7 = 28	4 x 8 = 32	4 x 9 = 36	4 x 10 = 40	4 x 11 = 44	4 x 12 = 48
5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

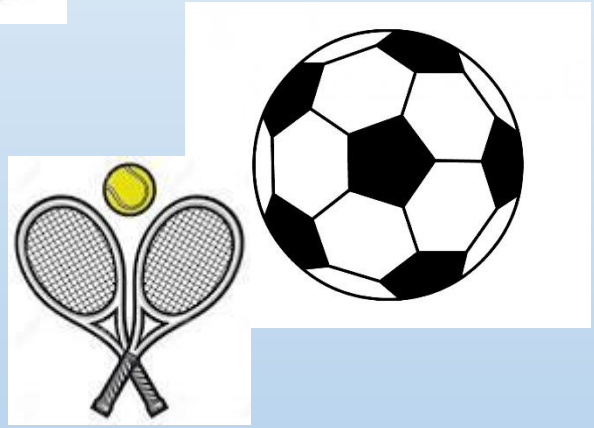
https://komodomath.com/blog/how-many-times-tables

https://www.youtube.com/watch?v=9C4EN7mFHCk

https://www.youtube.com/watch?v=e7rYbk9PNuM

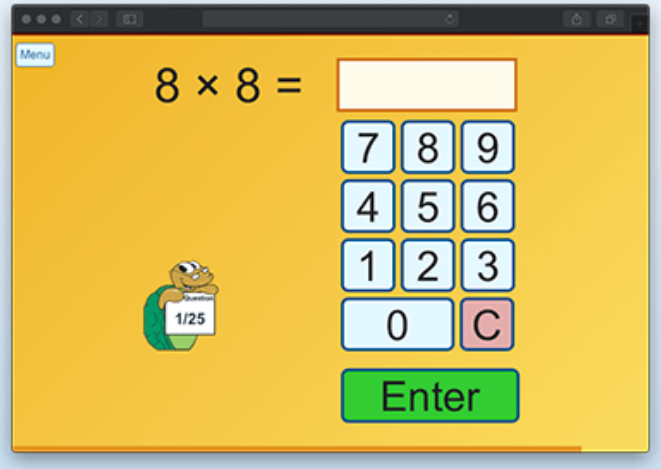
https://www.youtube.com/watch?v=9XzfQUXqiYY

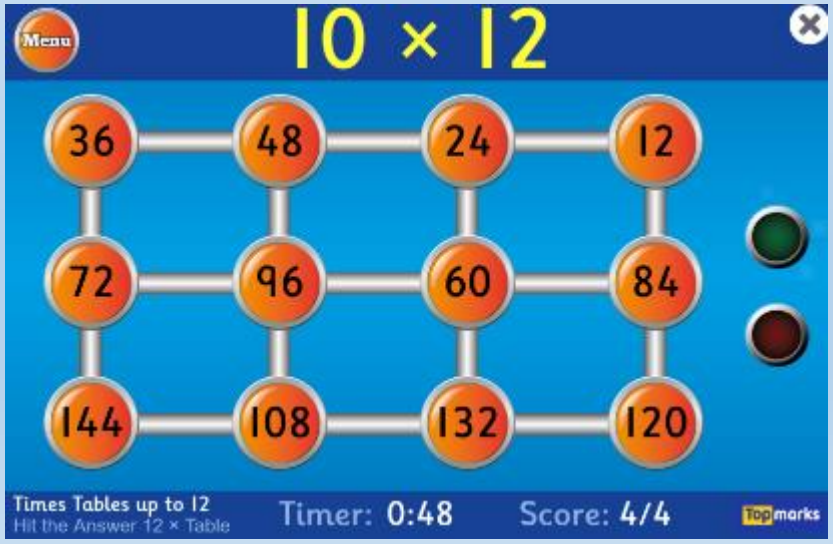




4 x 12 and 12 x 4	• I went to the park with my mate… 4 times 12 is 48 • I left the park a little late… 12 times 4 is 48
11 x 11	• I banged my toe so had a funny run… 11 times 11 is 121
8 x 12 and 12 x 8	• I saw a magician doing cool tricks… 8 times 12 is 96 • This magician had walking sticks… 12 times 8 is 96

Other online times table resources





DoodleTables

Doodlemaths

https://help.doodlelearning.com/en/articles/5089264-how-do-i-link-my-parent-email-to-my-child-s-school-account

Great websites

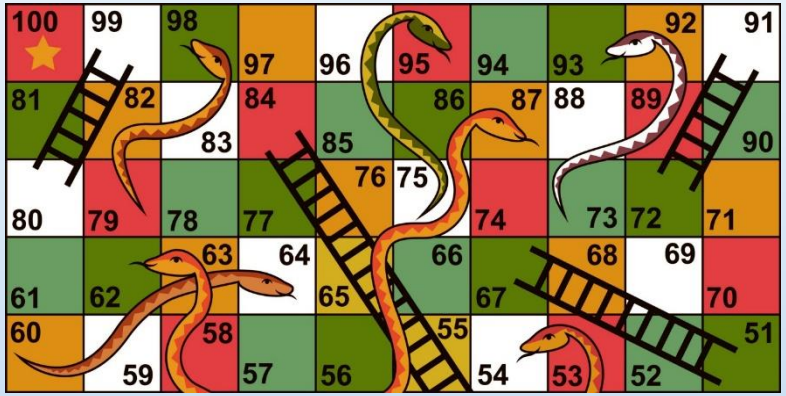
- https://whiterosemaths.com/maths-with-michael

- This is a brilliant series of short videos explaining the methods we use in White Rose Maths.

- https://www.mathsisfun.com/

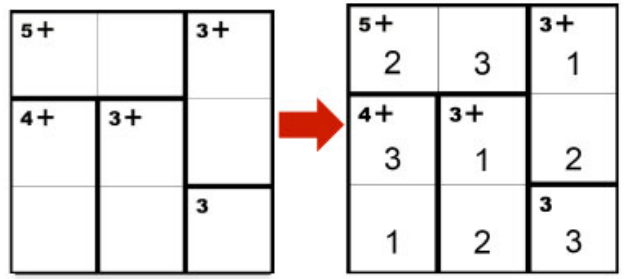
- This explains all areas of Maths and will continue to be useful into secondary school.

Games to play at home



How to Play KenKen®

Your goal is to fill in the whole grid with numbers, making sure no number is repeated in any row or column.



The Bare Necessities

Key Stage 2

Wiltshire Council
Where everybody matters