St Barnabas
Church of England Primary Academy
A member of CtDARI

Year 3 Fluency

Rapid Recall

- Addition and subtraction of multiples of 10 where the answer is between 0 and 100 (e.g. 70 + 30 = 100, 20 + 40 = 60)
- Double and halves of multiples of 10 to 100 (e.g. double 60 = 120)
- Multiplying two-digit numbers by 10. (e.g. 24 x 10 = 240)

	1	2	3	4	5	6	7	8	9	10	11	12
1	1 x1	2x1	3x1	4x1	5x1	6x1	7x1	8x1	9x1	10x1		
2	1x2	2x2	3x2	4x2	5x2	6x2	7x2	8x2	9x2	10x2		
3	1x3	2x3	3x3	4x3	5x3	6x3	7x3	8x3	9x3	10x3		
4	1x4	2x4	3x4	4x4	5x4	6x4		8x4		10x4		
5	1x5	2x5	3x5	4x5	5x5	6x5	7x5	8x5	9x5	10x5		
6	1x6	2x6	3x6	4x6	5x6	6x6		8x6		10x6		
7	1x7	2x7	3x7	4x7	5x7	6x7		8x7		10x7		
8	1x8	2x8	3x8	4x8	5x8	6x8		8x8		10x8		
9	1x9	2x9	3x9	4x9	5x9	6x9		8x9		10x9		
10	1x10	2x10	3x10	4x10	5x10	6x10	7x10	8x10	9x10	10x10		
11	1x11	2x11	3x11	4x11	5x11	6x11		8x11		10x11		
12	1x12	2x12	3x12	4x12	5x12	6x12		8x12		10x12		

1 x facts   Doubles   Squares   New Facts   Known Facts

Mental Calculations (Jottings may be needed)

Addition and Subtraction Mental Calculation Skills (Working mentally with jottings)	Methods or Strategies	Multiplication and Division Mental Calculation Skills (Working mentally with jottings)	Methods or Strategies
- Add and subtract a group of small numbers e.g. 4 - 3 + 2 - Add or subtract a two - digit number to or from a multiple of 10 e.g. 60 + 28, 72 - 40 - Add and subtract two - digit numbers that don't bridge over a multiple of 10. e.g. 53 + 42, 78 - 54 - Add near doubles of numbers within 50. e.g. 18 + 17, 44 + 45 - Count on and back in minutes and hours through 60 (analogue).	- Identify pairs totalling ten - Count on or back in tens from any number. - Partition: Add and subtract tens and ones separately and recombine. - Partition: Count on in tens and ones to find the total. - Partition: Count on or back in tens and ones to find the difference. - Double and adjust E.g. 18 + 17 = 18 + 18 - 1	- Double any multiple of 5 up to 100 e.g. double 35 - Halve any multiple of 10 up to 200. e.g. halve 170 - Multiply one-digit and two-digit numbers by 10 and 100. e.g. 7 x 10, 7 x 100, 46 x 10, 46 x 100 - Find unit fractions of quantities. This should include: Halves, thirds, quarters, fifths and tenths	- Partition: double the tens and ones separately and then recombine - Halve the hundreds, tens and ones separately and recombine. - Recognise that finding a unit fraction is the equivalent of dividing by the denominator. - Recognise that halving and doubling are inverse operations. - Use knowledge of division facts. - Recognise that when a number is multiplied by 10 or 100 the digits move one or two places to the left and 0 is used as a placeholder.