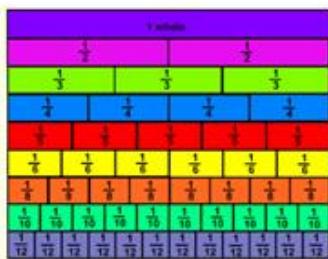


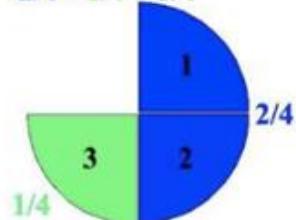
Year 4 1st Aut. Half-Term [For Parents & Carers](#) | White Rose Maths

Year 4 Recall +/-/x/÷	Ex. Mental Calculations ... jottings if needed	Mental Strategies +/-/x/÷ ...how & when to apply strategies
<ul style="list-style-type: none"> sums and differences of pairs of multiples of 10, 100 or 1000 addition doubles of numbers 1 to 100, e.g. $38 + 38$, and corresponding halves what must be added to any three-digit number to make the next multiple of 100, pairs of fractions that total 1 multiplication facts to 12×12 and the corresponding division facts count in multiples of 6, 9, 7, 11, 12, 25, 50, 100 and 1000 doubles of numbers 1 to 100, e.g. double 58, and corresponding halves doubles of multiples of 10 and 100 and corresponding halves fraction and decimal equivalents of one-half, quarters, tenths and hundredths, 	<ul style="list-style-type: none"> add or subtract any pair of two-digit numbers, including crossing the tens and 100 boundary, e.g. $47 + 58$, $91 - 35$ add or subtract a near multiple of 10, e.g. $56 + 29$, $86 - 38$ add near doubles of two-digit numbers, e.g. $38 + 37$ add or subtract two-digit or three-digit multiples of 10, e.g. $120 - 40$, $140 + 150$, $370 - 180$ double any two-digit number, e.g. double 39, double any multiple of 10 or 100, e.g. double 340, double 800, and halve the corresponding multiples of 10 and 100, halve any even number to 200 find unit fractions and simple non-unit fractions of numbers and quantities, e.g. $\frac{3}{8}$ of 24, multiply and divide numbers to 1000 by 10 	<ul style="list-style-type: none"> count on or back in Hs, Ts and Os partition: add tens and ones separately, then recombine partition: subtract tens and then ones, e.g. subtracting 27 by subtracting 20 then 7 subtract by counting up from the smaller to the larger number partition: + or - a near multiple of 10 and adjust, e.g. $56 + 29 = 56 + 30 - 1$, or $86 - 38 = 86 - 40 + 2$ partition: double and adjust use knowledge of place value and related calculations, e.g. work out $140 + 150 = 290$ using $14 + 15 = 29$ partition: count on or back in minutes and hours, bridging through 60 (analogue and digital times) partition: double or halve the Ts & Os separately, then recombine

e.g. $3/10$ is 0.3 and $3/100$ is 0.03
factor pairs for known multiplication facts



$$\frac{2}{4} + \frac{1}{4} = \frac{3}{4}$$



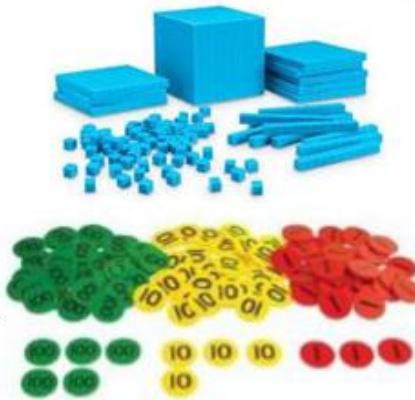
12 x 12 Multiplication Table													
x	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144

and then 100 (whole-number answers,
e.g. 325×10 , 42×100 , $120 \div 10$, $600 \div 100$, $850 \div 10$),

- multiply a multiple of 10 to 100 by a single-digit number, e.g. 40×3 300×3
- multiply numbers to 20 by a single-digit, e.g. 17×3 ,
- identify the remainder when dividing by 2, 5 or 10
- give the factor pair associated with a multiplication fact, e.g. identify that if $2 \times 3 = 6$ then 6 has the factor pair 2 and 3



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

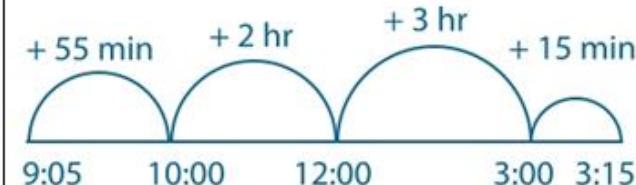


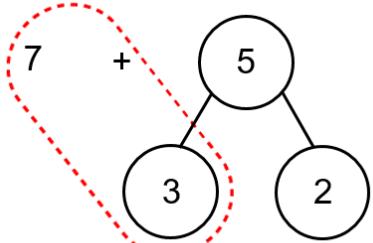
• use understanding that when a number is multiplied or divided by 10 or 100, its digits move one or two places to the left or the right and zero is used as a place holder

• use knowledge of multiplication facts and place value,

e.g. $7 \times 8 = 56$ to find 70×8 , 7×80

• use partitioning and the distributive law to multiply, e.g. $13 \times 4 = (10 + 3) \times 4 = (10 \times 4) + (3 \times 4) = 40 + 12 = 52$





Wk 1: Mental Maths Strategy... Counting up through a multiple of 10

Strategy... 17 split the 8 into 3 and 5 = $17 + 3 = 20 + 5 = 25$

Sums and differences of pairs to 100

a. $26 + 74 =$ b. $37 + 63 =$ c. $44 + 56 =$ d. $62 + 38 =$

$$7 + 3 = 10$$

$$10 + 2 = 12$$

Addition / Plus / More / Total / Sum / Altogether / Increase by

Subtraction / Take Away / Less than / Difference / Fewer / Minus / Decrease by

Wk 2: a. $315 + 523 =$ b. $321 + 512 =$ c. $315 + 542 =$ d. $5703 + 196 =$

	T	H	T	O
	1	0	2	9
+	9	8	3	
	2	0	1	2
	1	1	1	

Wk 3: a. $4364 + 618 =$ b. $2907 + 606 =$ c. $6793 + 164 =$ d. $2184 + 5019 =$

Wk 4: a. $357 - 225 =$ b. $789 - 250 =$ c. $355 - 245 =$ d. $723 - 303 =$

Wk 5: a. $1254 - 1126 =$ b. $2735 - 1208 =$ c. $4429 - 2079 =$ d. $7546 - 5280 =$

Wk 6: a. $3098 + 4076 =$ b. $4076 - 3098 =$ c. $187 + 5980 =$ d. $6782 - 709 =$



Maths Calculations on The Redeemer Website

3 and 6 times tables

4 and 8 times tables

2	2	13	
2	3	4	15
-	1	2	5
	1	0	8
			9