

Calculation policy 2023

River Bank Primary School

2023

Addition - Year 1



Addition – Year 2



Addition– Year 3



Add a two-digit number and a three-digit number using the column method. Reinforce the importance	252 + 23 = 275				275	<u>105 + 87 = 192</u> н т о				+	H 1	T 0 8	0 5 7		
of lining the place value		2	5	2		_	1	0	5		-	-	•		
columns correctly.	+		2	3		+		8	7	-		1	9	2	
		2	7	5			1	9	2				1		
								1							



f	437 rounded to the nearest 100	is .	f	40	0		
£	266 rounded to the nearest 100	is	f	30	0	-	
TI £	he estimated answer is 400 + £300 = £700	+	4 2 7 1	3 6 0 1	7 6 3		

Addition – Year 5 and 6



Adding decimals up to the thousandth's column.	2	3.	6	+	7.	5	4	2	=	3	1.	1	4	2
Line the place value columns correctly. Put place holders into the					2	3	• 6	0	0					
empty columns.				+	0	7	- 5	4	2					
Exchange if a column goes					3	1	• 1	4	2					
across 10.					1	1								





Subtraction Year 2









Year 4– Subtraction





Subtract decimals from a whole number.

Put placeholders into the empty columns so that there is an even number of digits.

When there are multiple zeros, you must continue to exchange until you can subtract in the smallest value place value column.

7	-	3.	5	6	2	=	3.	4	3	8
		6	9 10	9	¹ 0					
	-	3	. 5	6	2					
		3	. 4	3	8					

Year 1 – Multiplication



Making doubles and seeing them as two equal groups.	Double 1 is 2	Double 4 is 8	<i>3</i> 36633 <i>3</i> 33633
	Double 3 is 6	Double 5 is 10	<u>10</u> + <u>10</u> = <u>20</u> Double <u>10</u> is <u>20</u>









Method	E	xample
Multiply by 6 and 9 and learn the 6- and 9-times tables. Counting sticks to be used in the teaching of the times tables. Introduce the children to the finger trick for the 9 times	There are <u>6</u> equal groups of <u>3</u> 3 + 3 + 3 + 3 + 3 + 3 = 18 $3 \times 6 = 18$ $6 \times 3 = 18$	There are $\frac{4}{9}$ cookies. There are $\frac{9}{9}$ chocolate chips in each cookie. There are $\frac{36}{36}$ chocolate chips altogether. 9+9+9+9=36 $4 \times 9=36$ $9 \times 4=36$
tables.	6 12 18 24 30 36 42 48 54 60 66 72 9 18 27 36 45 54 63 72 81 90 99 108	Tens Ones 2 7 $0 \times 9 = 0$ $1 \times 9 = 9$ $2 \times 9 = 18$ $3 \times 9 = 27$ Ones $3 \times 9 = 27$
Learn the 7,11 and 12 timetables.	7 14 21 28 35 42 42 11 22 33 44 55 66 12 12 24 36 48 60 72 8	9 56 63 70 77 84 77 88 99 110 121 132 34 96 108 120 132 144
Multiply by 1 and 0. Know that when multiplying by 0 the answer is always 0. Know that when we multiply by 1, the answer remains the same.	There are 4 plates. $0 \times 4 = 0$ Each plate has 0 doughnuts on it. There are 0 doughnuts altogether. $4 \times 0 = 0$ There are 0 doughnuts altogether. $0 \times 3 = 0$ There are 3 plates. $0 \times 3 = 0$ Each plate has 0 doughnuts on it. There are 0 doughnuts altogether. $3 \times 0 = 0$	Complete the missing numbers and number sentences. There is <u>1</u> tree. The tree has <u>5</u> birds on it. <u>1 × 5 = 5</u> There are <u>5</u> birds altogether. <u>5 × 1 = 5</u>
Multiply by 10 and 100	24 x 10 = 240	24 x 100 = 2400

Know that when we multiply by 1 <u>0</u> , the digits shift one place value column to the left. When multiplying by 1 <u>00</u> , the digits shift two place value columns to the left.	Thousands Hundreds Tens Or Image: Thousands Hundreds Tens Image: Tens <th>nes Thousands</th> <th>Hundreds Tens Ones Hundreds Tens Image: Constraint of the second s</th>	nes Thousands	Hundreds Tens Ones Hundreds Tens Image: Constraint of the second s
	20 x 10 = 200	20	2,000
	4 x 10 = 40	4 x	= 400
	200 + 40 = 240	2,0	= 2,400
Multiply a 2-digit number by a 1-digit number. Children to be taught the expanded method where each digit is partitioned and multiplied separately. Children also to be taught short multiplication with exchanging required.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	T O 2 4 × 4 9 6 1 1	4 x 4 = 16 (6 goes into the ones column and 1 ten is exchanged) 4 x 2 = 8 (now add the exchanged digit. 8 + 1 = 9
Multiply a 3-digit number by a 1-digit number.	251 × 3 =		!51 × 3 = 753
	H T O Image: Second state		0 H T 0 2 5 1 × 3 1 1





Method	Ex	ample
Making equal groups – grouping Children will be given a total amount and be asked to make groups of an equal amount.	There are <u>6</u> altogether. There are <u>3</u> equal groups of <u>2</u>	Each gingerbread cookie needs 3 buttons. Use 15 buttons to decorate the cookies. How many cookies can you decorate?
Making equal groups – sharing Children will be given a total amount and be asked to physically share them into equal groups.	Share the muffins equally between 2 groups.	There are <u>8</u> muffins. They are shared equally between <u>2</u> plates. There are <u>4</u> muffins on each plate.

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Division -

Year 2





Finding a quarter	
Children will be encouraged to share totals into four equal groups in order to see the link between finding a quarter and dividing by 4.	$^{\underbrace{\textcircled{0}}}$ $\overbrace{\underset{2}{\textcircled{0}}}$





Division -



Year 4



Division –



Division - Year 5



Division - Year 6

