

AVANTI HOUSE

EXCELLENCE · VIRTUE · DEVOTION



Yr3 Mathematics

Parent Workshop

Contents



- The New Curriculum what's new in Year 3 and 4
- The 4 operations including methods used and progression throughout the phase.
- Mental Maths
- How you can help at home.
 - Online applications

What's new?



- Focus on various topics each term
- Increased focus on number

Roman numerals to 100

Multiplying fractions

Less focus on 'statistics'



Sam Walton

Larger numbers

Times tables



By the end of year 4 pupils should:

- memorise their multiplication tables up to and including the 12 times table
- show precision and fluency in their work
- should read and spell mathematical vocabulary correctly and
 confidently
 x 1 2
 x 1 2
 1 1 2
 3 3 6
 4 4 8 1

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х	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	<mark>6</mark> 3	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

Calculations



Why so many methods?

Children are entitled to be taught and to acquire secure **mental** methods and efficient **written** methods of calculation for **each operation** which they know they can rely on when mental methods are not appropriate.

We teach them a range so they can choose the one they prefer and proves most accurate for them.



The Four Operations





Adding



83 + 42 = 125

80 + 3 <u>+ 40 + 2</u> 120 + 5

move to

83 + <u>42</u> 5 <u>120</u> 125







So in any class, the same example might be given, but children work it out in different ways, according to their level of understanding.

- Choose a method you are unfamiliar with to solve these sums.
 - 1. 73 + 57
 - 2. 153 + 89
 - 3. 163 + 144
 - 4. 287 + 193



37 – 12



$$37 - 12 = 37 - 10 - 2$$

= 27 - 2
= 25



197 – 25 =172





98 - 24 = 74

90 + 8 - <u>20 + 4</u> 70 + 4



⁸ ¹ 9 2 -<u>3 8</u> 5 4

902 - 38 = 864 900 + 0 + 2 - <u>30 + 8</u>

800 + 90 + 12 30 + 8

800 + 60 + 4

- Choose a method you are unfamiliar with to solve these calculations.
- 1. 97 42
- 2. 183 55
- 3. 188 54
- 4. 394 131
- 5. 73 29
- 6. 194 38



Dividing $6 \div 2 = 3$ **Sharing** - 6 sweets are shared between 2 people. How many do they have each? 1 + 3 + 41

Grouping – There are 6 sweets. How many people can have 2 each? (How many 2's make 6?)



Dividing



With more advanced numbers, e.g. dividing by 3 or 4

Remainders 16 ÷ 3 = 5 r1 Sharing - 16 shared between 3, how many left over? Grouping – How many 3's make 16, how many leftover?







Dividing



Use 'bus stop' method for division: Estimate and check. 360 ÷8 is approximately 400 ÷8 = 50



Choose a method you are unfamiliar to solve these calculations.



- 1. 35 ÷ 5
- 2. 67 ÷ 8
- 3. 270 ÷ 3
- 4. 348 ÷ 4

Multiplying



2 x 4 • • • • 4 x 2 or 4 + 4 • • • •





$$35 \times 2 = 70$$

$$\begin{array}{c|c} x & 30 & 5 \\ \hline 2 & 60 & 10 \end{array}$$

60 + 10 = 70

Multiplying



$23 \times 7 = 161$ $T \qquad \cup$ $\frac{x}{7} \qquad 20 \qquad 3$ $7 \qquad 140 \qquad 21 \qquad 140 + 21 = 161$

This method is extended to multiplying a 3 digit number by a single digit

Multiplying



Still use the grid method to multiply numbers up to 3 digits by a single digit.
Move onto more formal method when appropriate:
Children could record in brackets – e.g. 15 (3 X 5)
Similar to grid method but using vertical recording.

125 x 3
125X

$$3$$

15
 60
 300
 375
125 x
 $\frac{3}{375}$

Choose a method you are unfamiliar to solve these calculations.



- 1. 89 x 5
- 2. 274 x 8
- 3. 285 x 4
- 4. 317 x 7

Thank you for coming.

Any questions?

