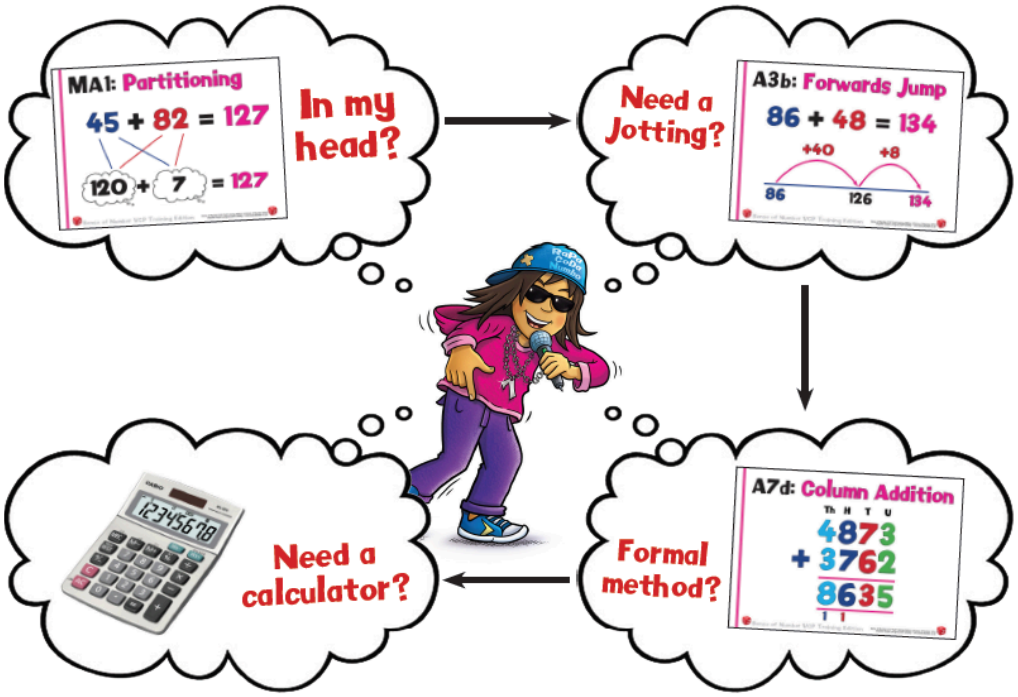
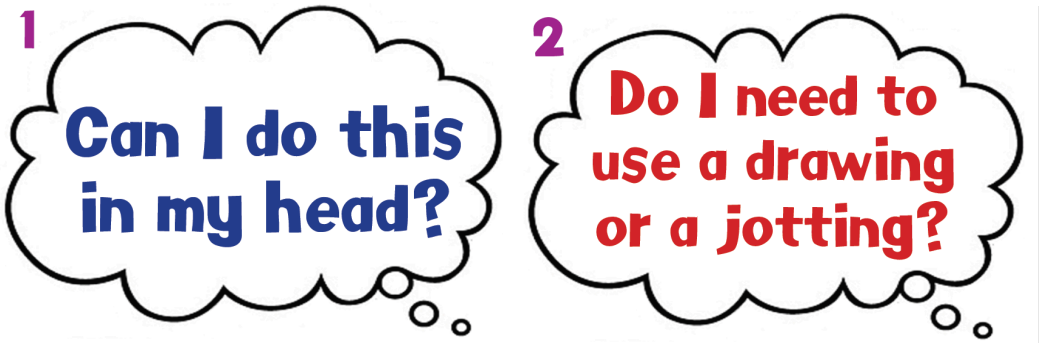
Toner Avenue Visual Calculation Policy: Year 6

We want our pupils to make decisions. We help our pupils make choices to be fast and efficient at maths.



Before we answer questions, this is what we consider.



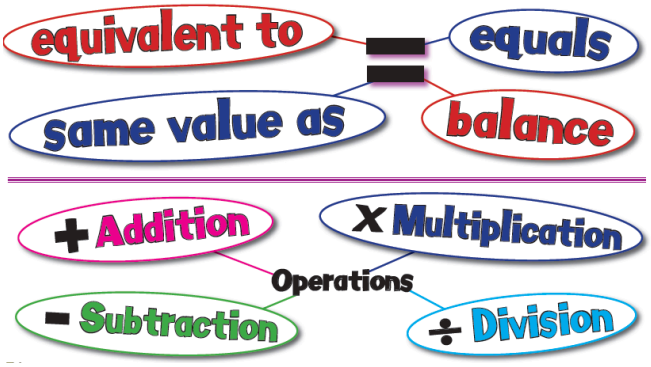


And do I need any equipment?

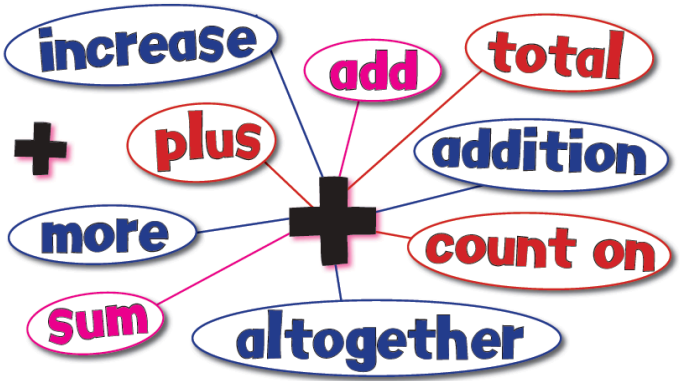
Toner Avenue Visual Calculation Policy: Year 6

We use rich and varied vocabulary

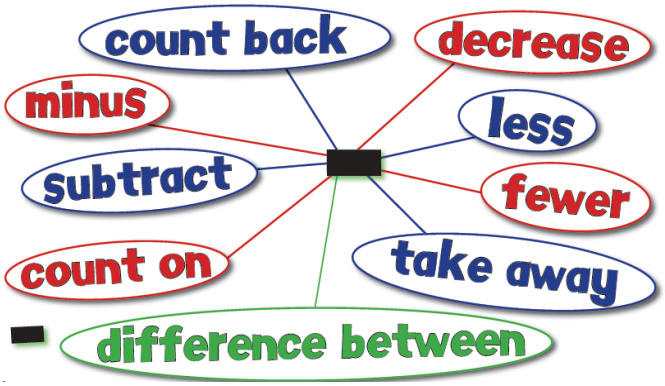
Calculation Vocabulary



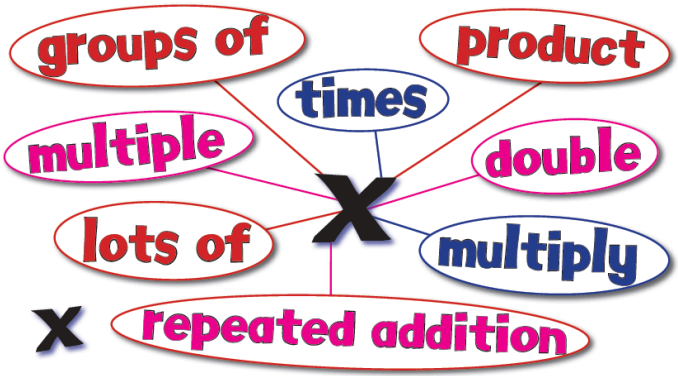
Addition Vocabulary



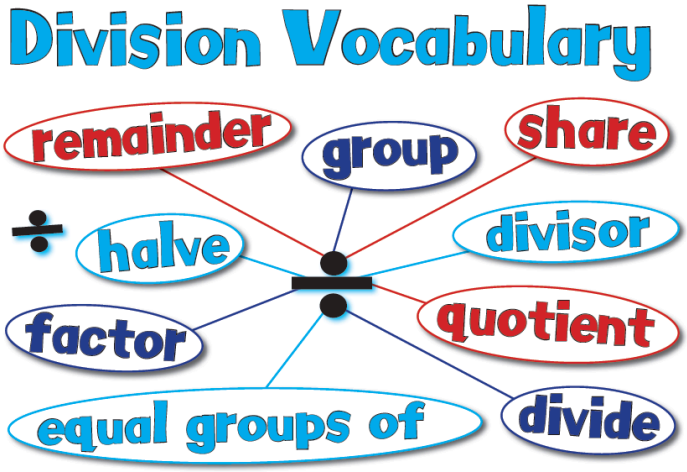
Subtraction Vocabulary



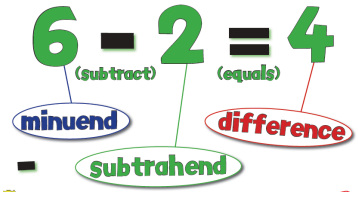
Multiplication Vocabulary



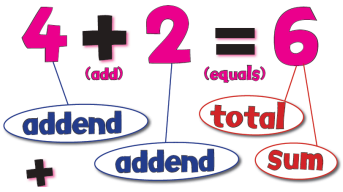
Division Vocabulary



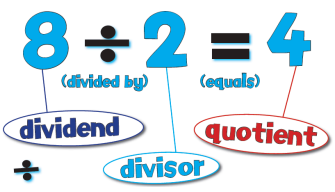
Subtraction Calculation



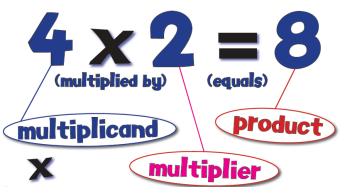
Addition Calculation



Division Calculation



Multiplication Calculation



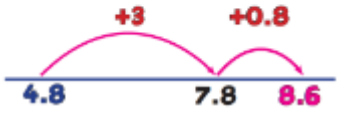
Toner Avenue Visual Calculation Policy: Year 6

Counting

Year 6 – Counting and Equipment

A3f: Decimal Jump

4.8 + 3.8 = 8.6



A4f: Partitioning

4.8 + 3.8 = 8.6

4 + 3 = 7
0.8 + 0.8 = 1.6
8.6

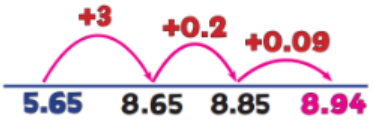
A5f: Partition Jot

4.8 + 3.8 = 8.6

7 + 1.6

A3g: Decimal Jump

5.65 + 3.29 = 8.94



A5g: Partition Jot

5.65 + 3.29 = 8.94

8 + 0.8 + 0.14

A5h: Partition Jot

76.7 + 58.5 = 135.2

120 + 14 + 1.2

A5i: Partition Jot

£38.25 + £27.46 = £65.71

£65.00 + £0.71

MA1: Partitioning

4.73 + 2.21 = 6.94

6 + 0.9 + 0.04 = 6.94

MA3: Number Bonds

£4.56 + £3.27 + £1.44 = £9.27

£6.00 £3.27

MA4: Double & Adjust

45 + 46 = 91

45 + 45 + 1

90 + 1 = 91

MA5: Round & Adjust

4645 + 1996 = 6641

4645 + 2000 - 4

6645 - 4 = 6641

MA2a: Counting On

Ten Thousands

43,826 + 30,000 = 73,826

+30,000

43,826 73,826

MA2b: Counting On

Millions

5,763,947 + 4,000,000 = 9,763,947

+4,000,000

5,763,947 9,763,947

Toner Avenue Visual Calculation Policy: Year 6

Addition

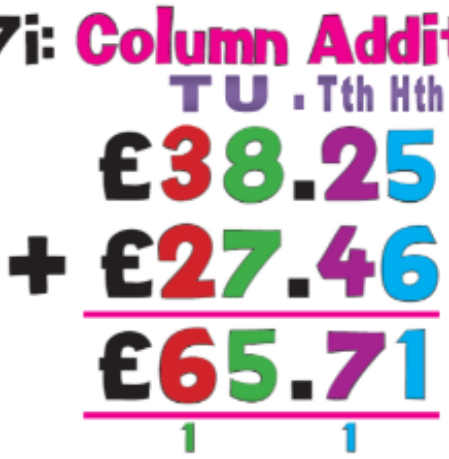
Year 6 – Addition

A7e: Column Addition



A7i: Column Addition

Money



A7j: Column Addition

With Decimals

73.4 + 5.67 = 79.07



Toner Avenue Visual Calculation Policy: Year 6

Subtraction

Year 6 – Subtraction

S11e: Column Subtraction



S11g: Column Subtraction



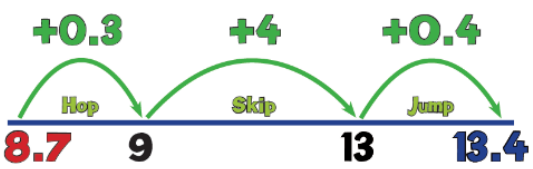
S11h: Column Subtraction

With Decimals

12.4 - 5.97 = 6.43

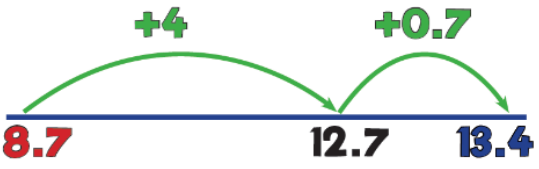


S8f: Decimal T-J!



13.4 - 8.7 = 4.7

S9f: Is Jump, Tenths Jump!



13.4 - 8.7 = 4.7

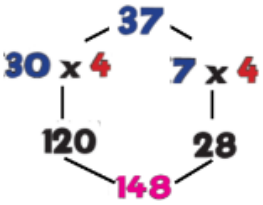
Toner Avenue Visual Calculation Policy: Year 6

Multiplication

Year 6 – Multiplication

MM3a: Partitioning

$37 \times 4 = 148$



MM3a: Partitioning

$37 \times 4 = 148$

$120 + 28 = 148$

(30×4) (7×4)

MM1a: Jump!

x1000	63400
x100	6340
x10	634
	63.4
÷10	6.34
÷100	0.634
÷1000	0.0634

MM5g: Doubling

Double 3.7 = 7.4

6 + 1.4 = 7.4

M7: Column Multiplication

100	10	1
1	4	7
x		4
5	8	8
1	2	

M9: Long Multiplication

Column

$$\begin{array}{r} 43 \\ \times\ 65 \\ \hline 215 \\ +\ 2580 \\ \hline 2795 \end{array}$$

(5 x 43)

(60 x 43)

M9a: Long Multiplication

Column

$$\begin{array}{r} 243 \\ \times\ 68 \\ \hline 1944 \\ +\ 14580 \\ \hline 16524 \end{array}$$

(8 x 243)

(60 x 243)

M9c: Column Multiplication

10	1	.	$\frac{1}{10}$
	3	.	6
x			4
1	4	.	4
	2		

Toner Avenue Visual Calculation Policy: Year 6

M9c: Column Multiplication

10 1 • 1/10

3.6
x 4
14.4
2

M9e: Column Multiplication

10 1 • 1/10 1/100

7.38
x 6
44.28
4 2 4

M9f: Long Multiplication

Column Decimals

10 1 • 1/10 1/100

24.3
x 2.5
12.15 (0.5 x 24.3)
+ 48.60 (2 x 24.3)
60.75
1

M9g: Long Multiplication

Column

3786
x 48
30288 (8 x 3786)
+ 151440 (40 x 3786)
181728
1

Mx2: Table Facts

2x table



Mx5: Table Facts

5x table



Mx10: Table Facts

10x table



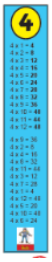
Mx3: Table Facts

3x table



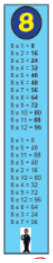
Mx4: Table Facts

4x table



Mx8: Table Facts

8x table



Mx6: Table Facts

6x table



Mx7: Table Facts

7x table



Mx9: Table Facts

9x table



Mx11: Table Facts

11x table



Mx12: Table Facts

12x table



Division

Year 6 – Division

D10e: Short Division

5978 ÷ 7 = 854

$$7\overline{)5^{5}9^{3}7^{2}8}\quad 854$$

D10f: Short Division

Different Remainders

846 ÷ 5

$$5\overline{)8^{3}4^{4}6.^{1}0}\quad 169.2$$

$$5\overline{)8^{3}4^{4}6}\quad 169\text{r}1$$

$$5\overline{)8^{3}4^{4}6}\quad 169\tfrac{1}{5}$$

D10i: Short Division

87.5 ÷ 7 = 12.5

$$7\overline{)8^{1}7^{3}.5}\quad 12.5$$

D12: Long Division

Short Division Method

$$37\overline{)9^{9}8^{24}3}\quad 26\text{r}21$$