Sense of Number **Visual Calculation Policy Basic Edition for** Saint Mary's Catholic Primary School **May 2016** Graphic Design by Dave Godfrey Compiled by the Sense of Number Maths Team For sole use within Saint Mary's Catholic Primary School. 'A picture is worth 1000 words!' www.senseofnumber.co.uk



Poster Guide Visual Calculation Policy

Code	Section	Basic Edition (99 Slides)		Expanded Edition (316 Slides)	
		How many posters?	Slide Numbers	How many posters?	Slide Numbers
	Introduction Slides	3	1-3	3	1-3
KS	KS: Key Concepts	7	4-10	7	4-10
	Vocabulary Slides	9	11-19	9	11-19
С	Counting Policy	-	-	13	21-33
Α	Addition	7	20-26	40	34-73
MA	Mental Addtion	5	27- 31	40	74-113
S	Subtraction	11	32-42	33	114-146
MS	Mental Subtraction	-	-	4	147-150
Μ	Multiplication	9	43-51	32	151-182
MM	Mental Multiplication	1	52	30	183-212
D	Division	14	53-66	41	213-253
	Calculation Cards	-	-	9	254-262
	Multiplication Tables	-	-	11	263-273
	Expanded Edition Progression (Year groups for New Curriculum)	13	67-79	19	274-291
	Alternative layouts (Column and Subtraction on a Number Line)	11	80-90	29	292-32 1



Saint Mary's Catholic Primary School VCP Basic Edition © Sense of Number 2016 For sole use by purchasing school. Bespoke Graphic Design by Dave Godfrey - www.senseofnumber.co.uk

AMB6 M

Guide to using a Visual Calculation Policy

The Sense of Number Visual Calculation Policy provides a visual representation of a school's written and mental calculation policy.

Typical uses:

Classoom: The slides are printed out (e.g. A4) and the appropriate slides are displayed within each classroom for continual reference or on a working wall.

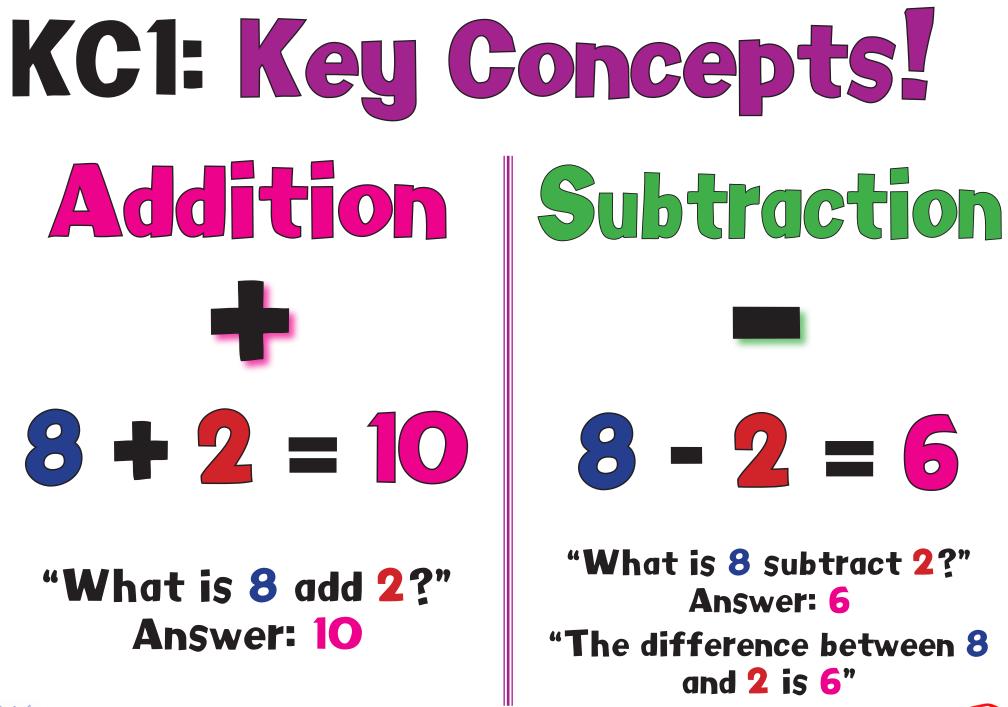
Teacher Reference: The slides are printed out (e.g. 9 slides per A4 page) and inserted in the teacher's planning folder.

Parents: The slides are used to communicate to parents the methods being taught and used within school.

Website: Slides from the VCP are inserted on a schools' maths webpages.

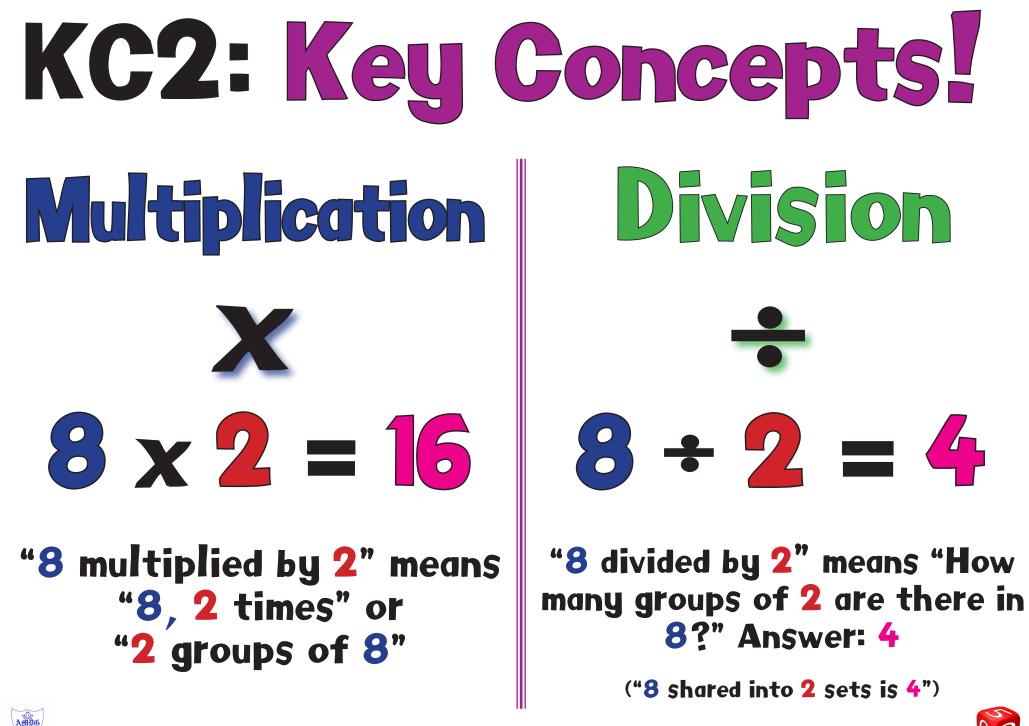
(Please note: the VCP should not be made available for download)



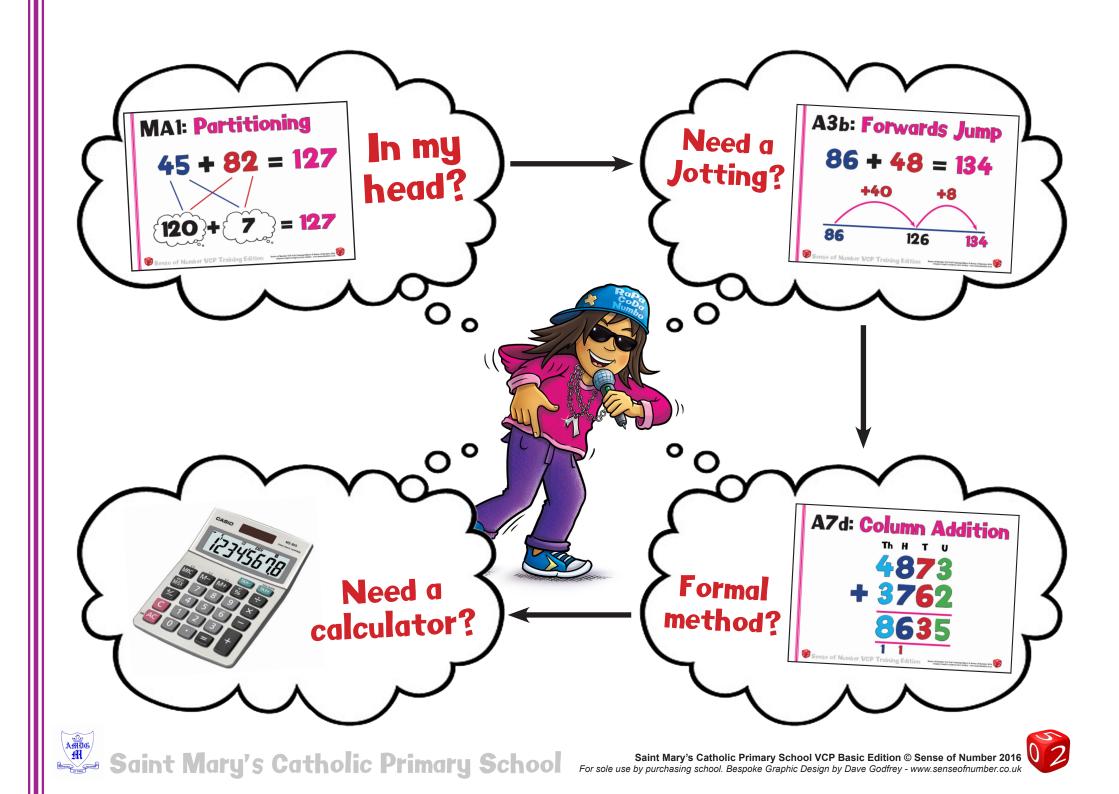


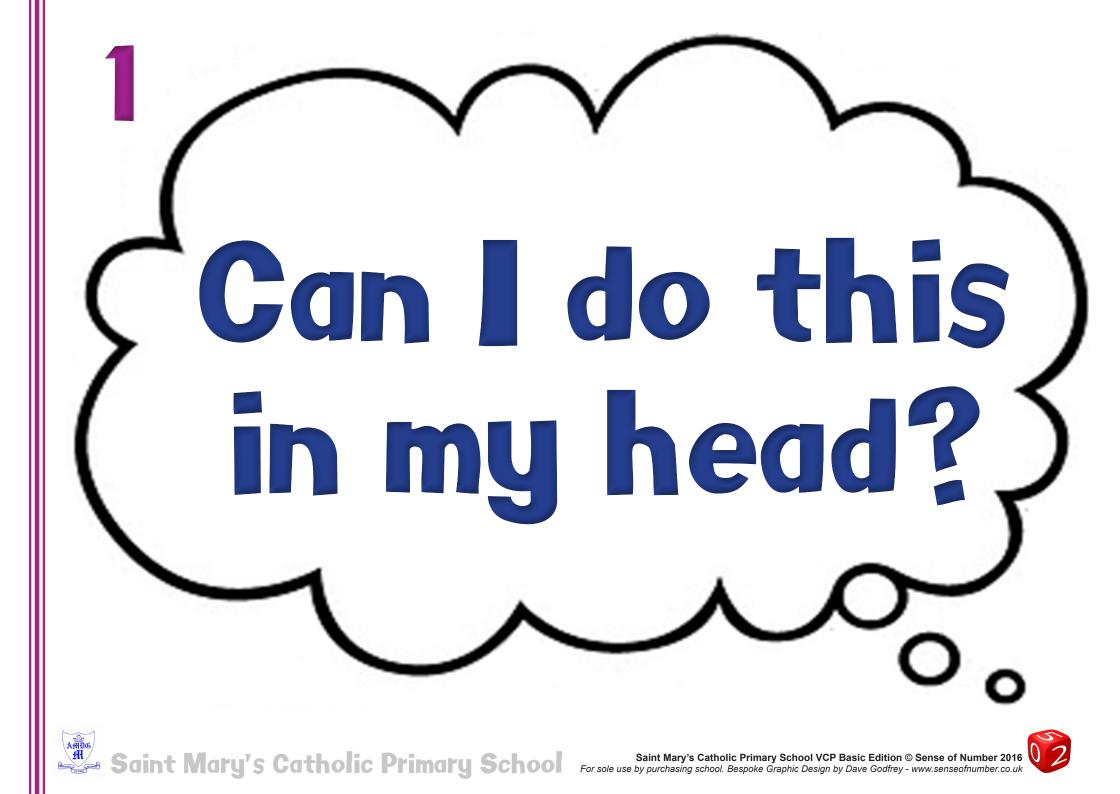
02

Saint Mary's Catholic Primary School



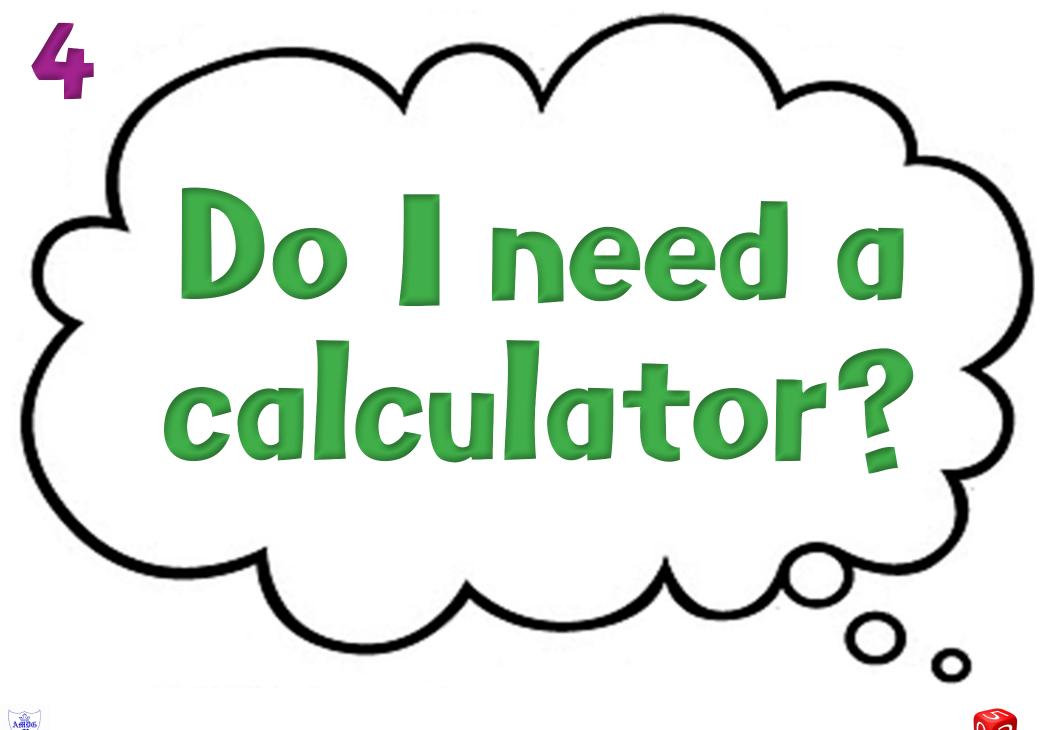
Saint Mary's Catholic Primary School



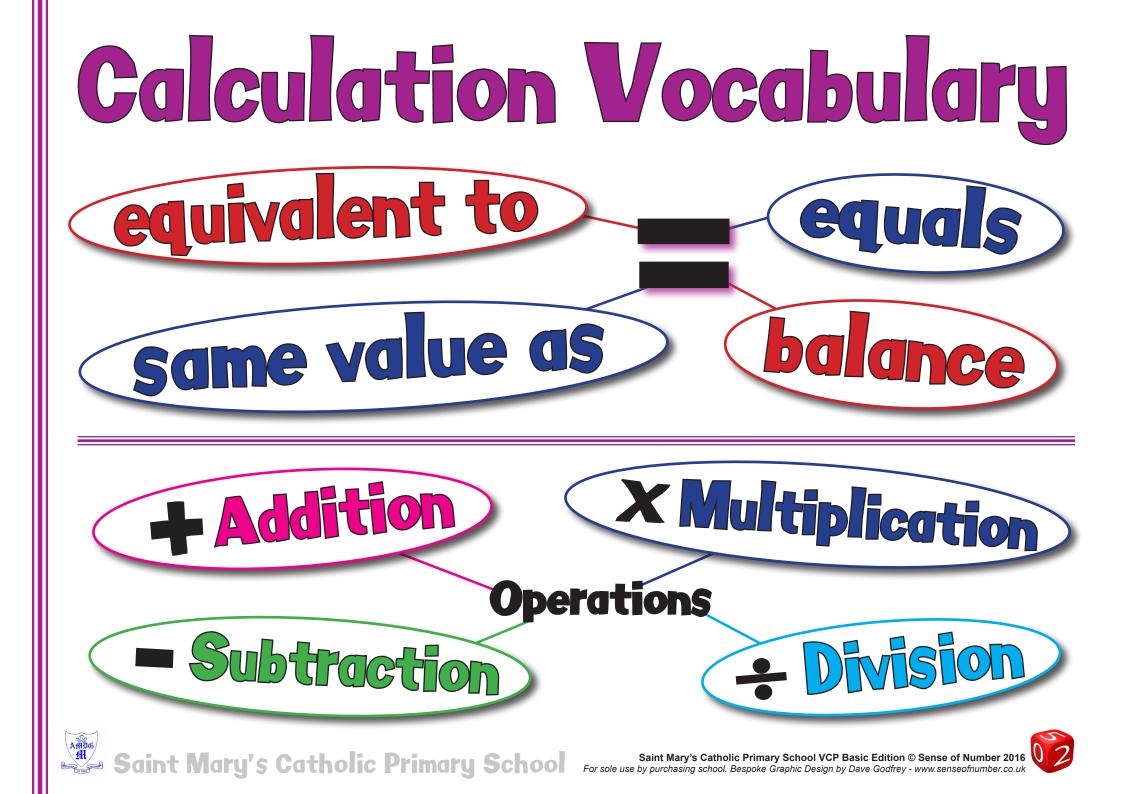


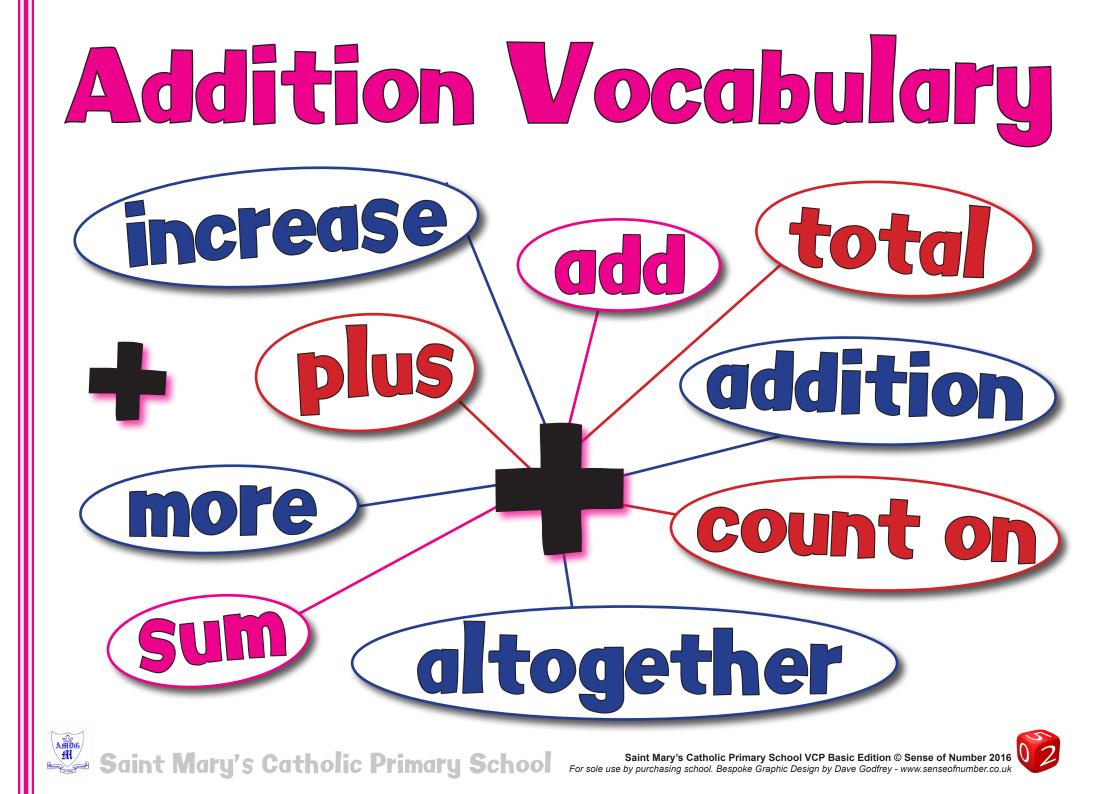


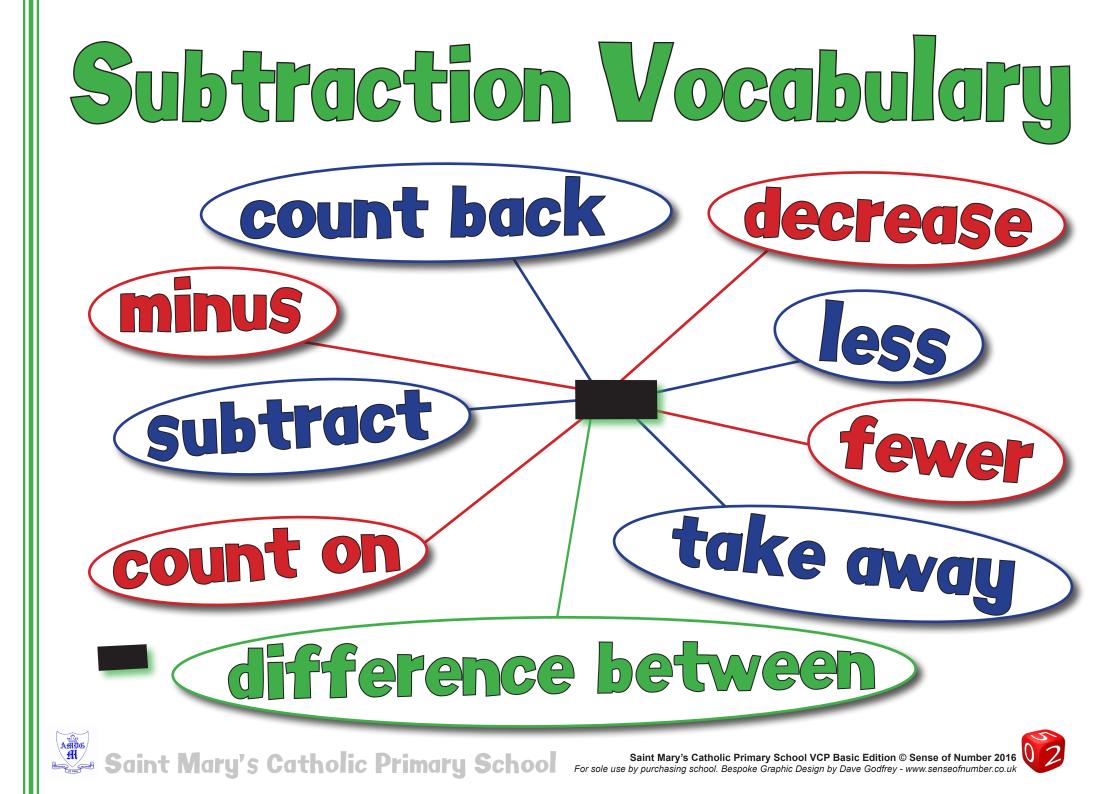
Do I need an expanded or a standard method?)

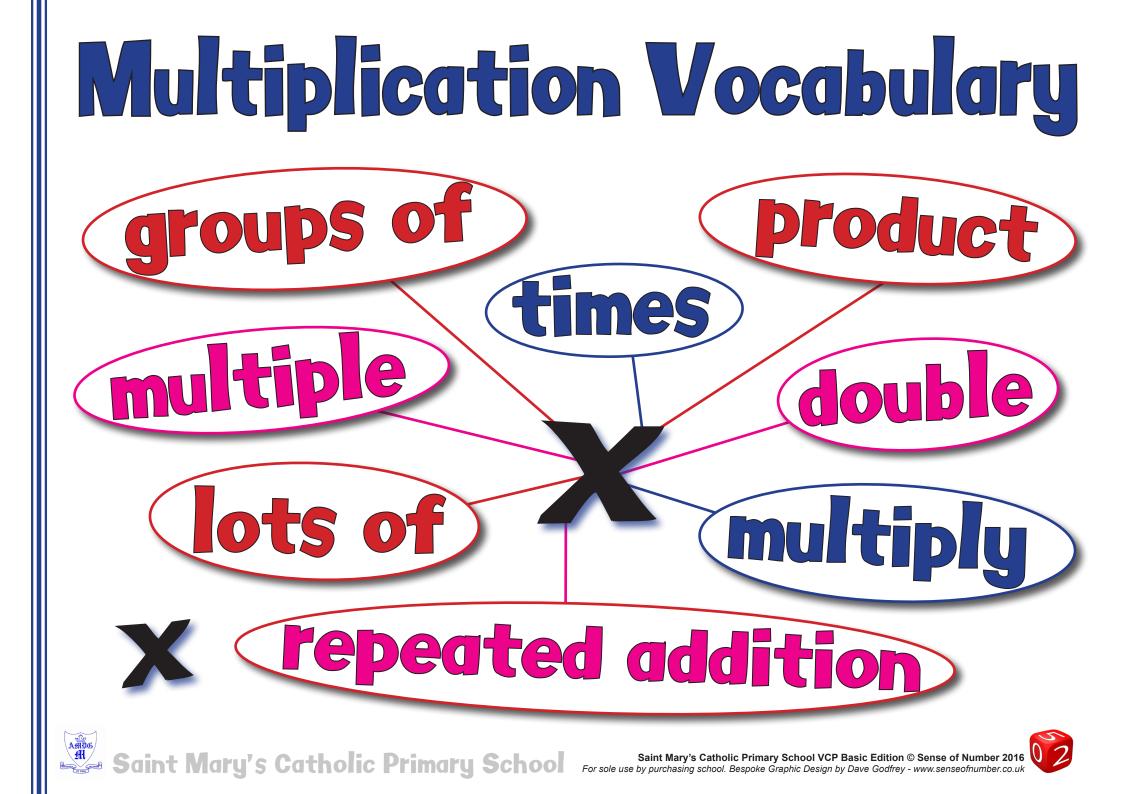


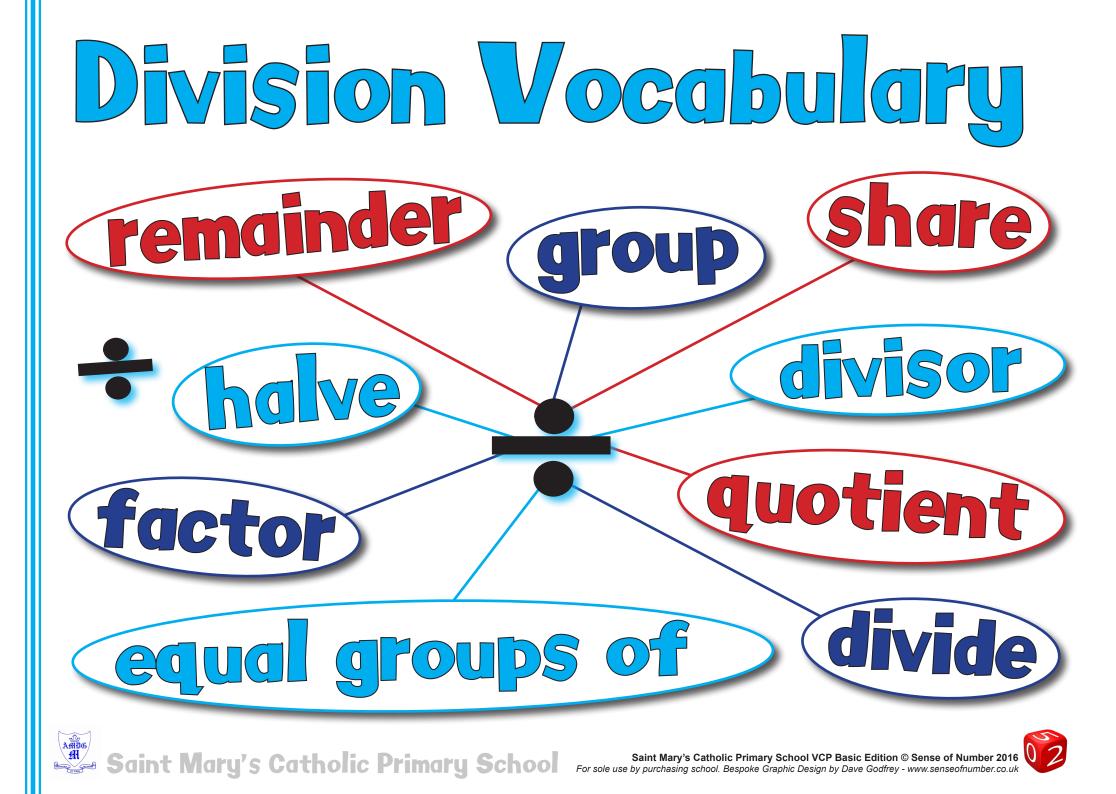


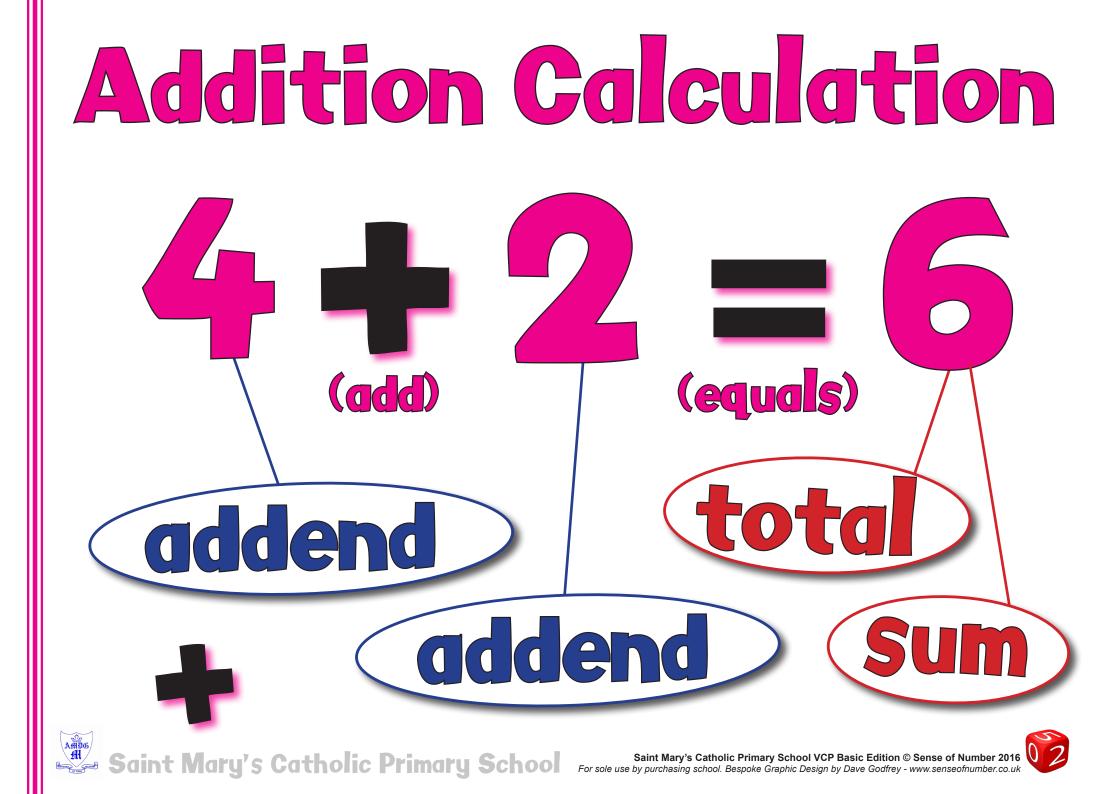


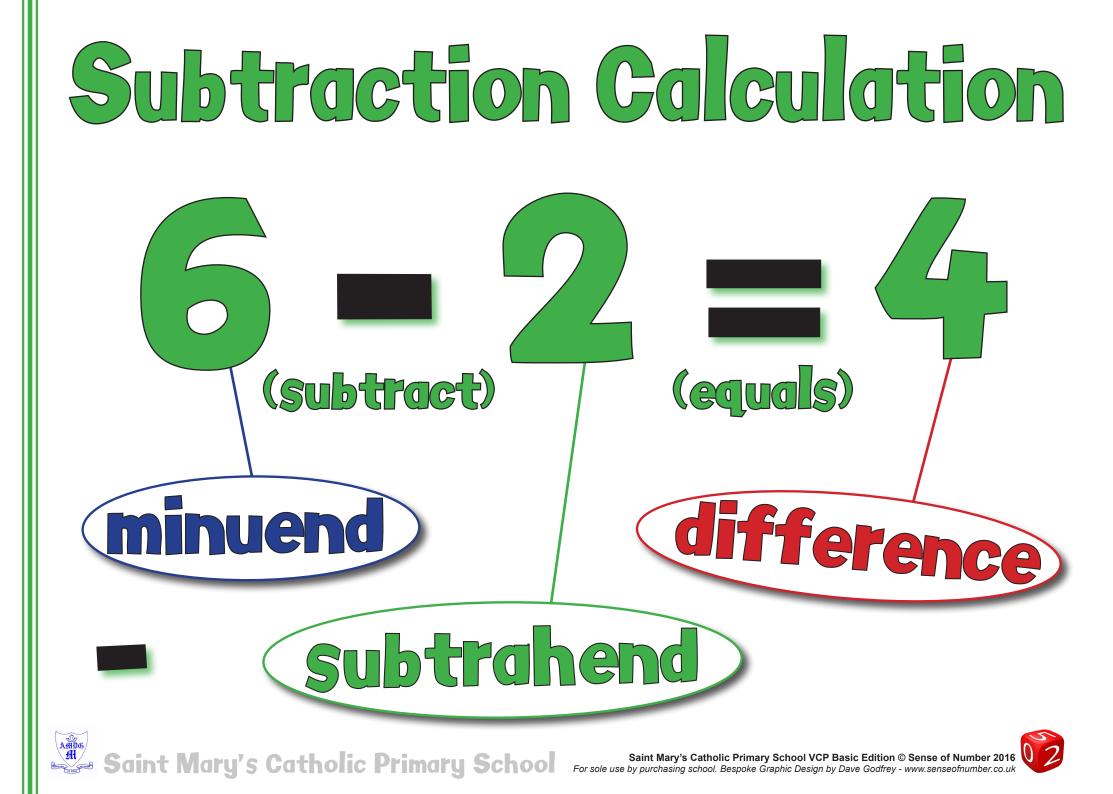


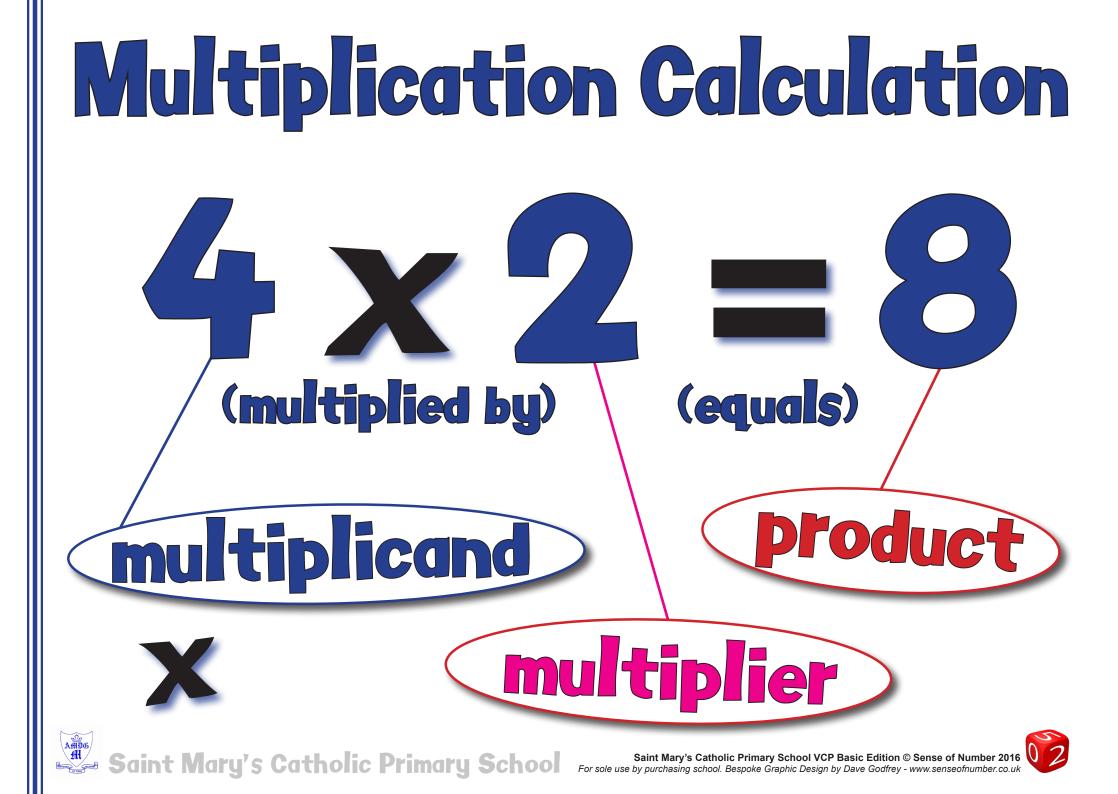


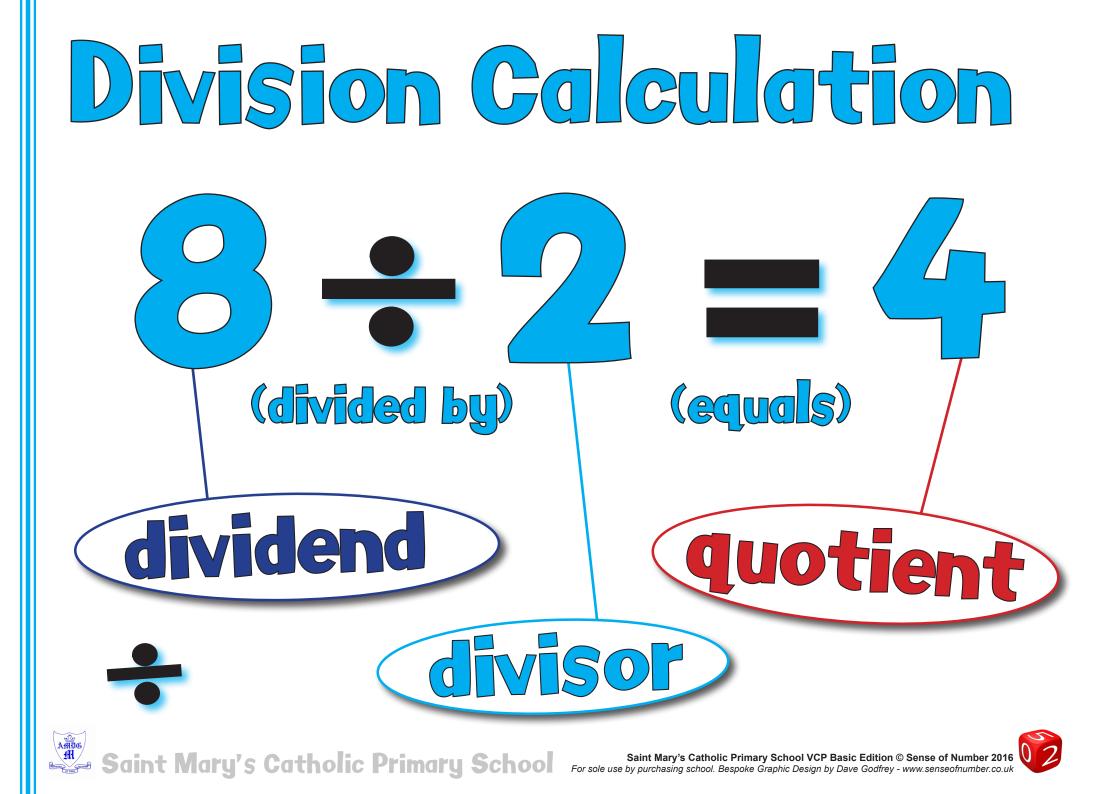


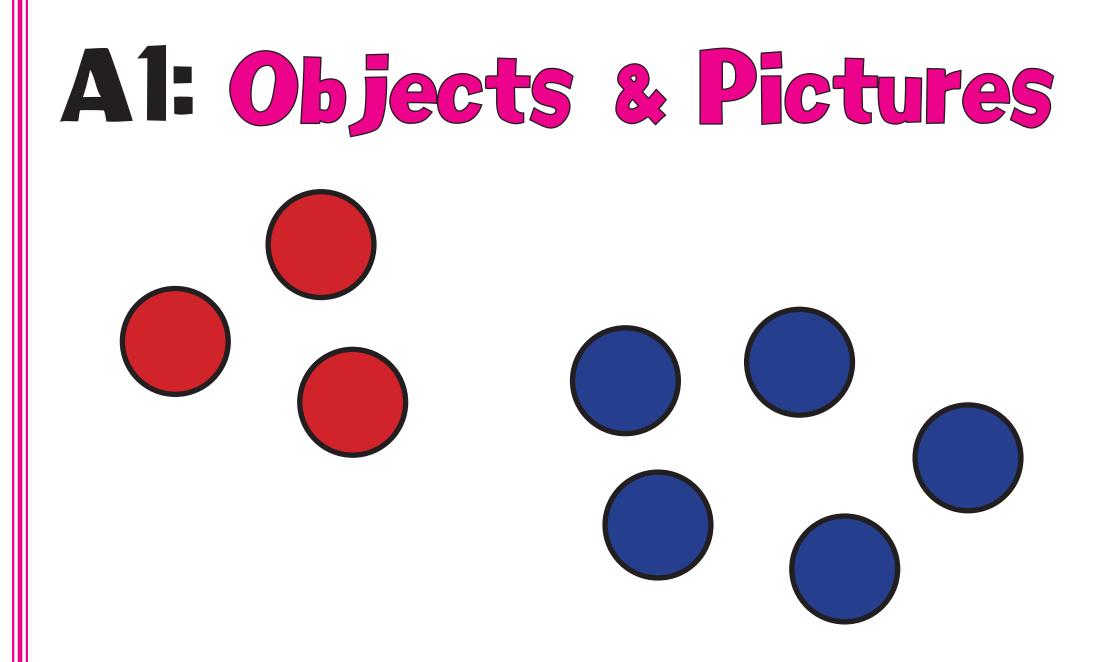










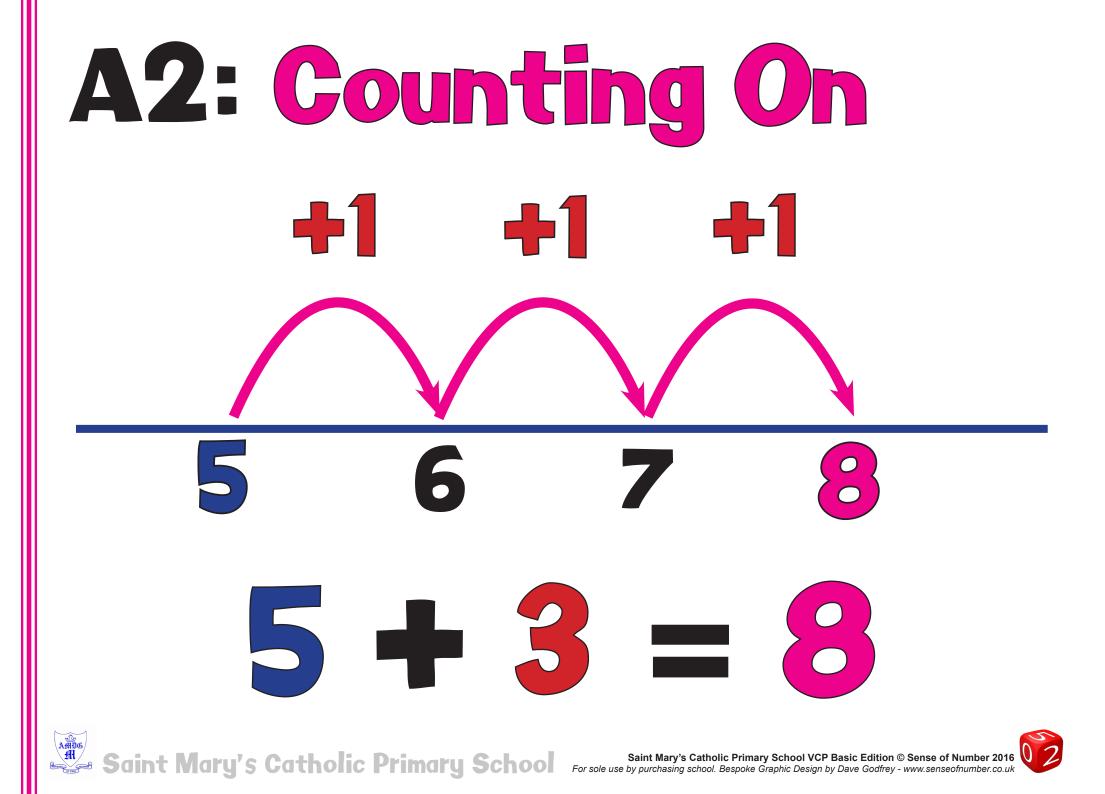


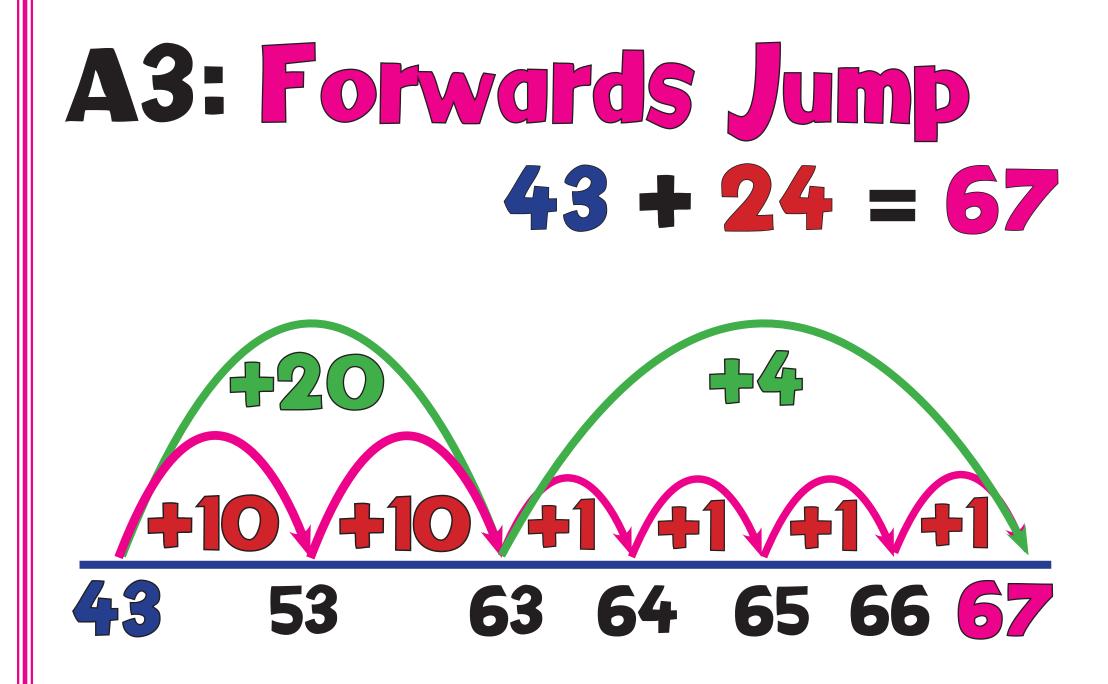
"If I have 3 and then 5 more, how many altogether? Answer: 8"



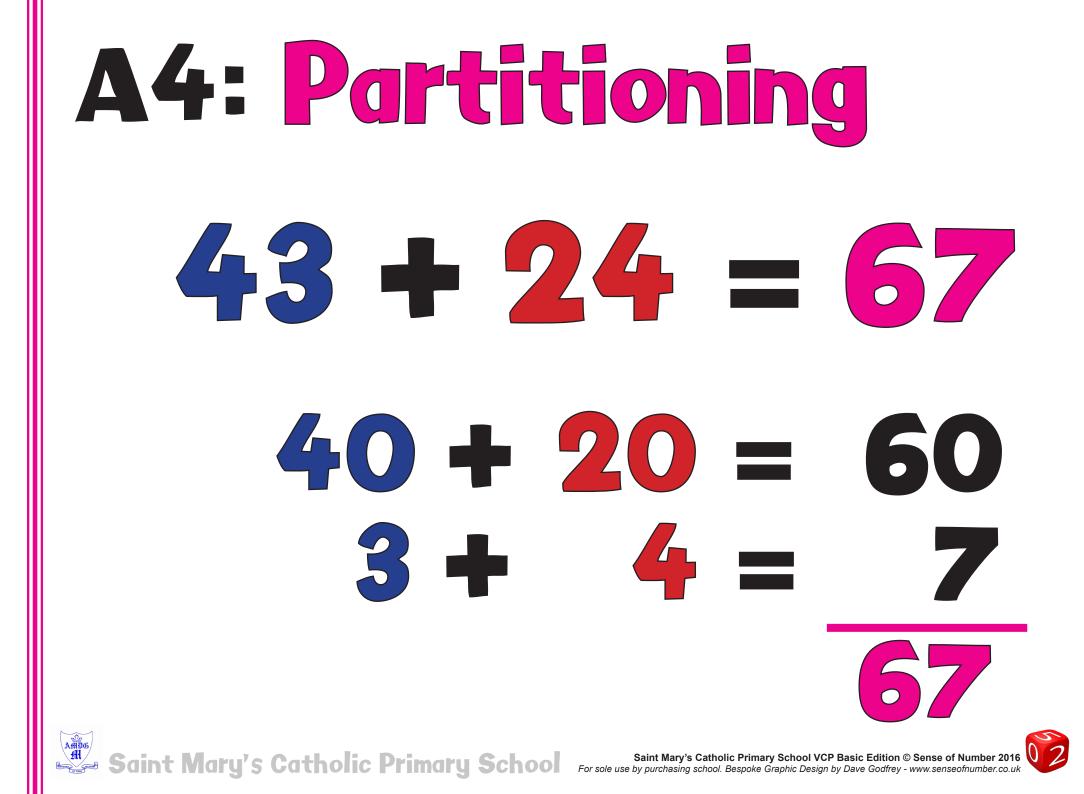
Saint Mary's Catholic Primary School VCP Basic Edition © Sense of Number 2016 For sole use by purchasing school. Bespoke Graphic Design by Dave Godfrey - www.senseofnumber.co.uk

AHBO M



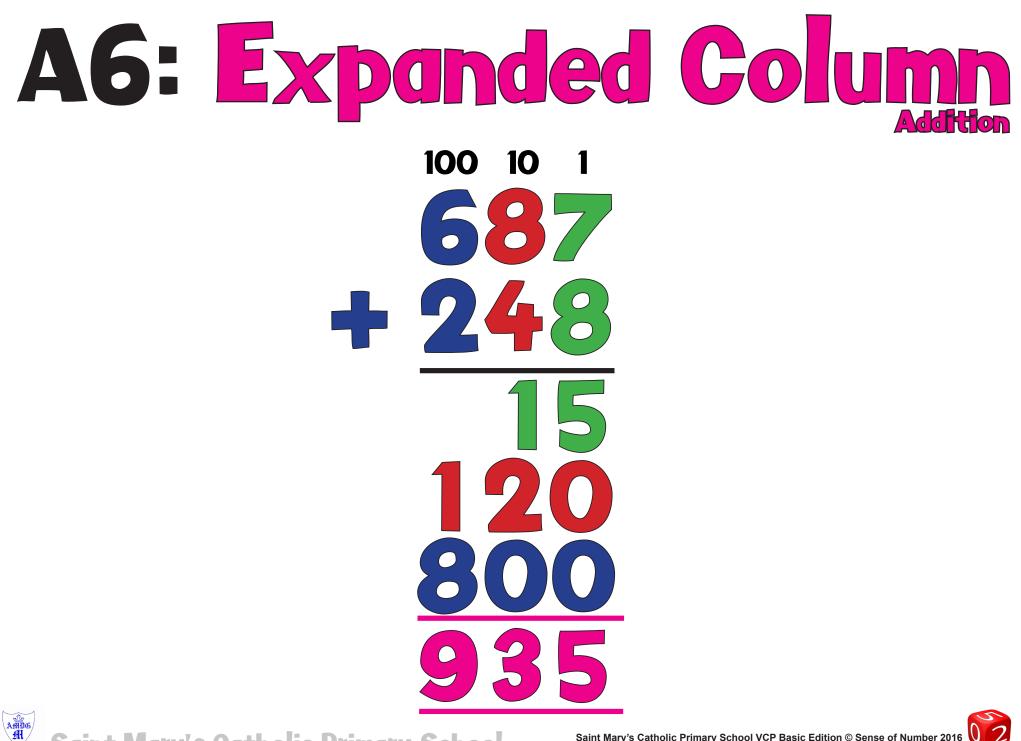




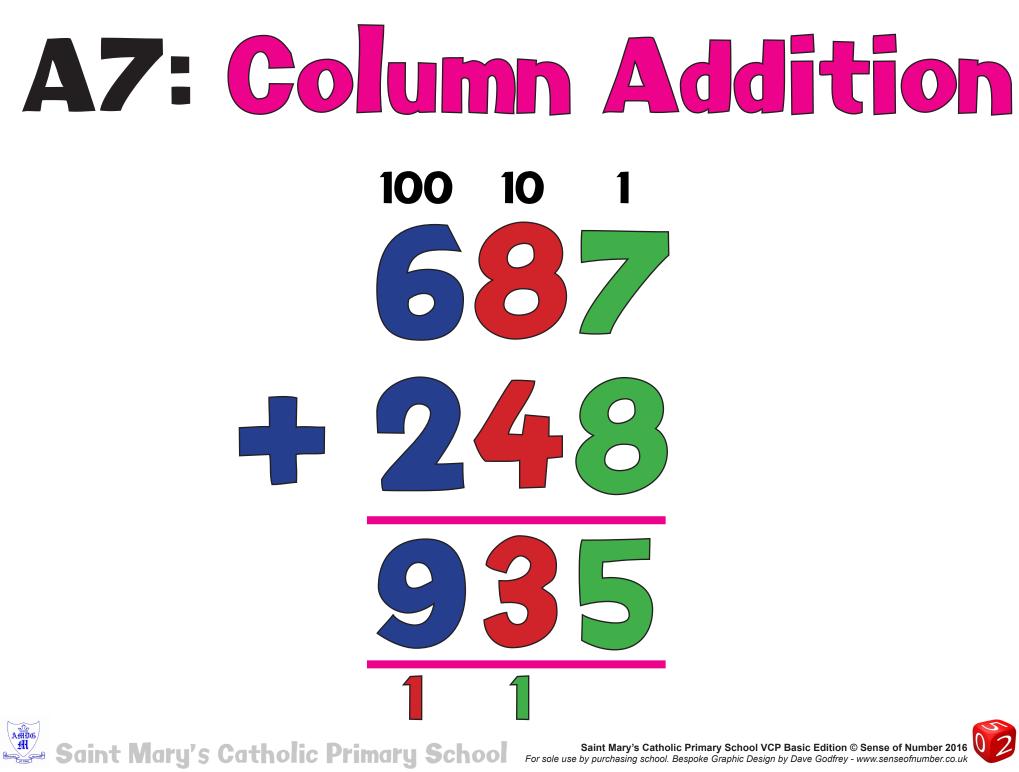


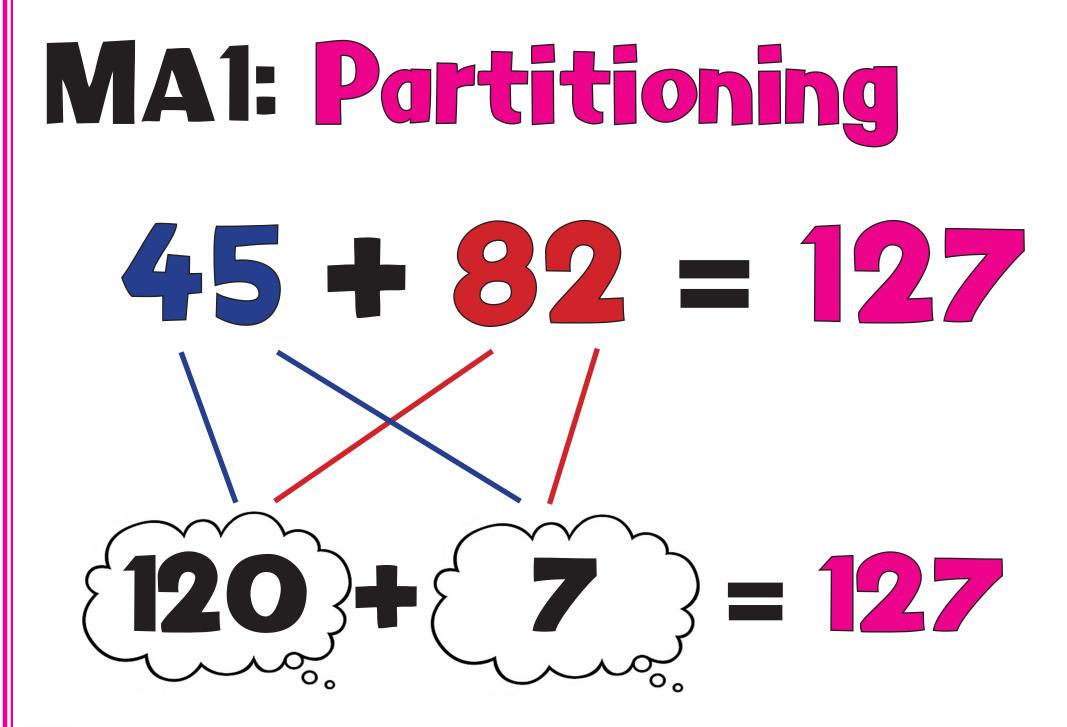
A5: Partition Jot

43 + 24 = 67**60 + 7**

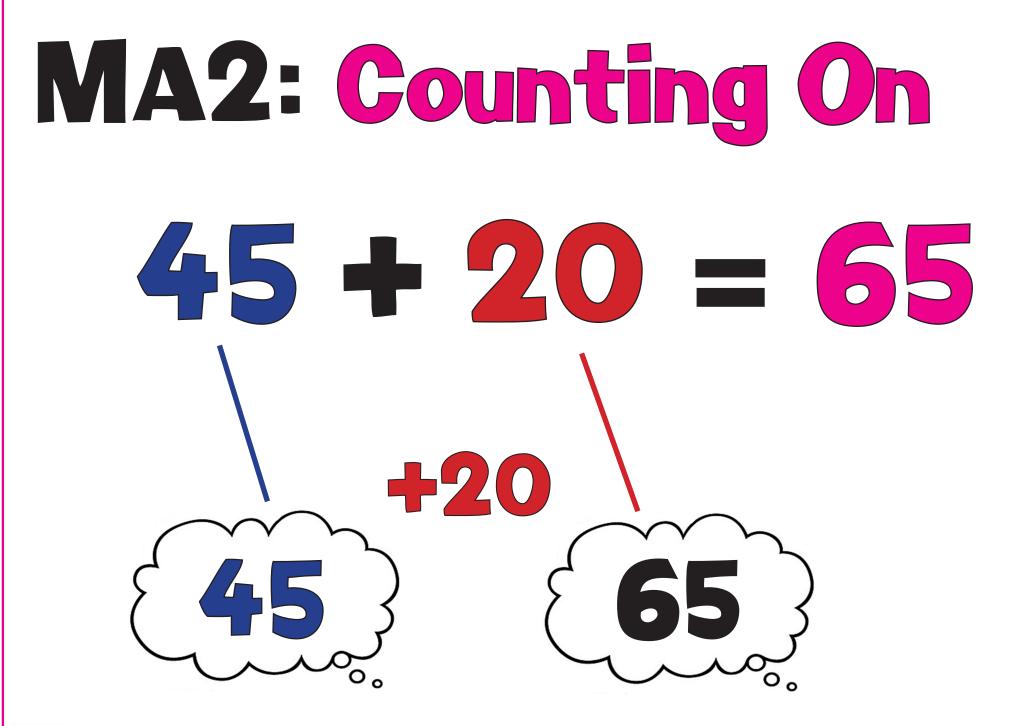




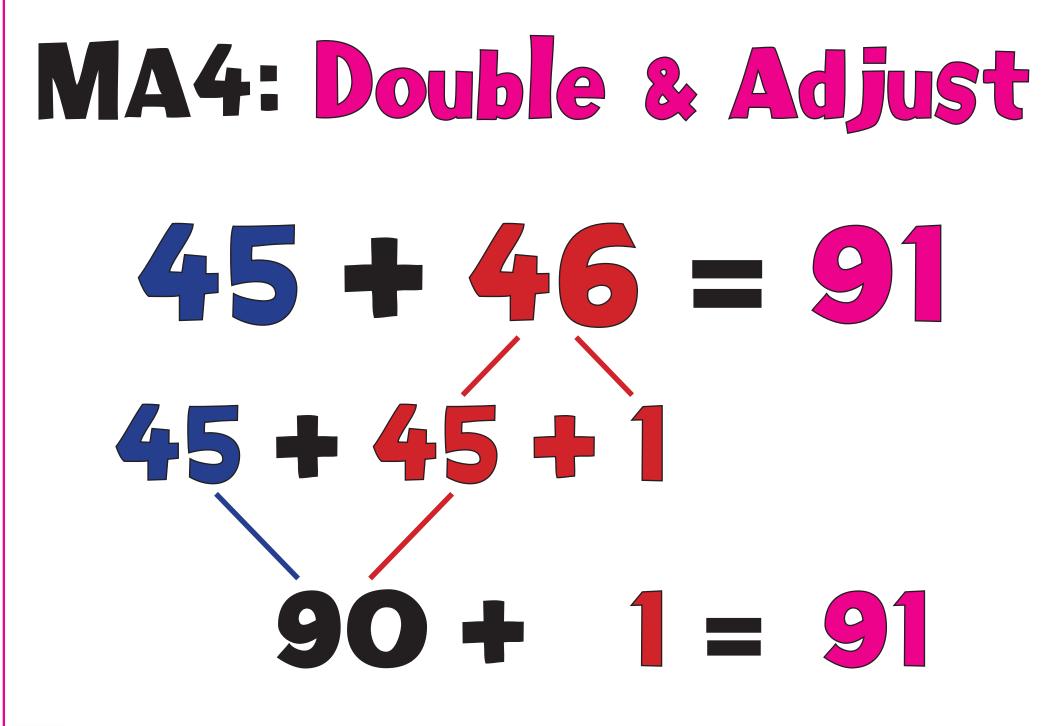




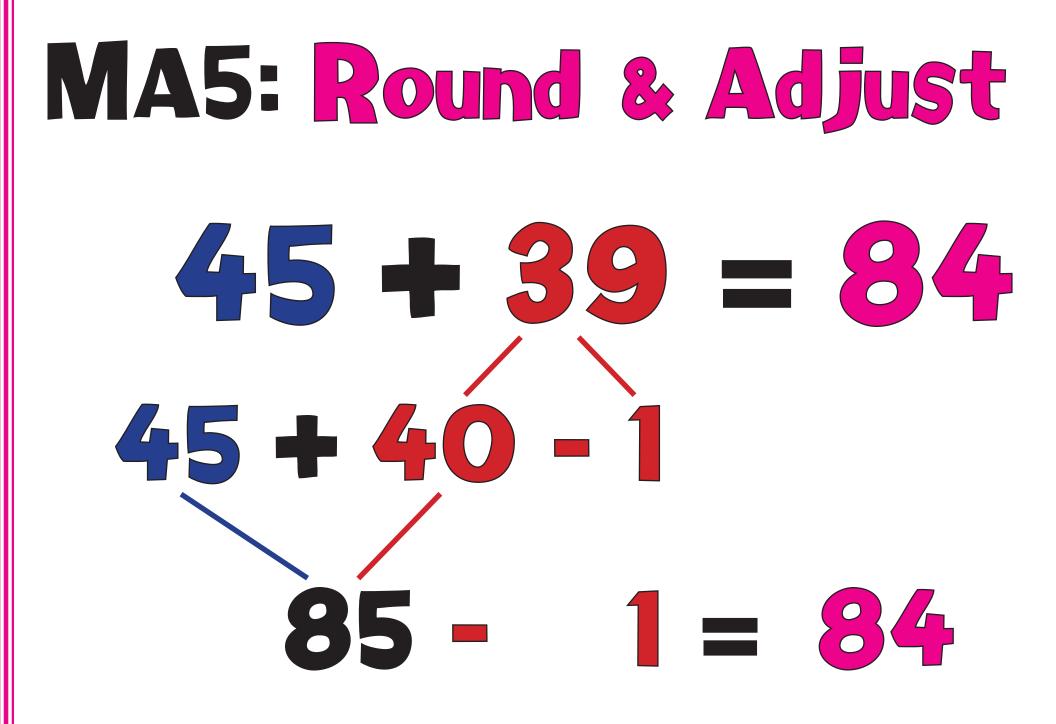




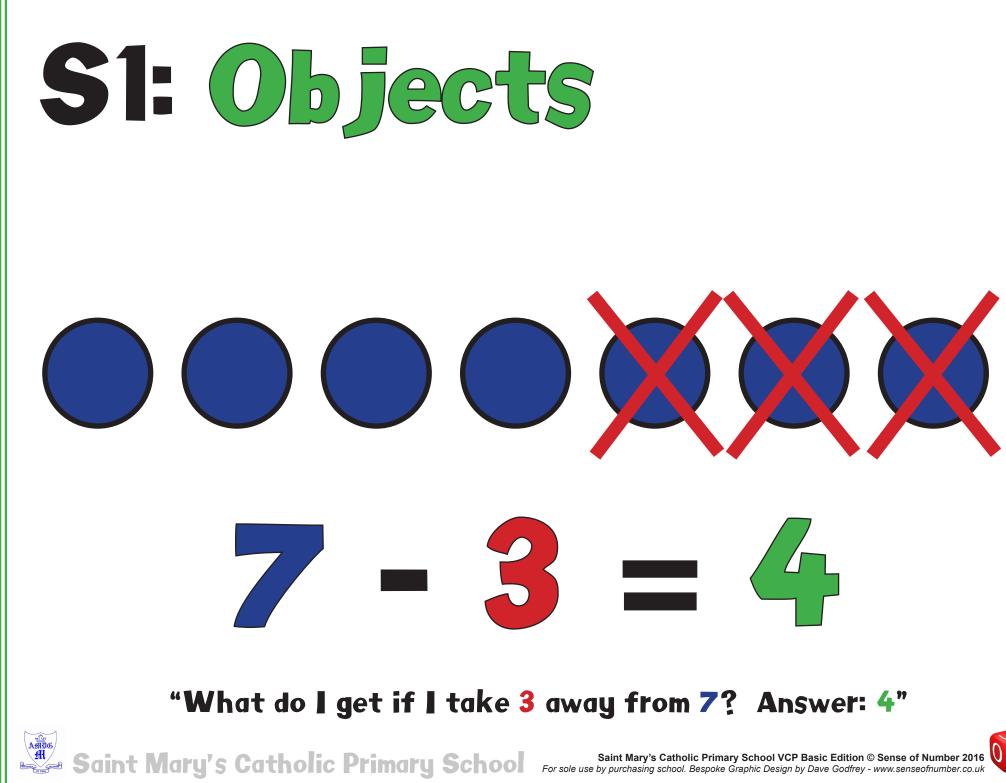
MA3: Number Bonds 45 + 95 = 14040 + 100 = 140



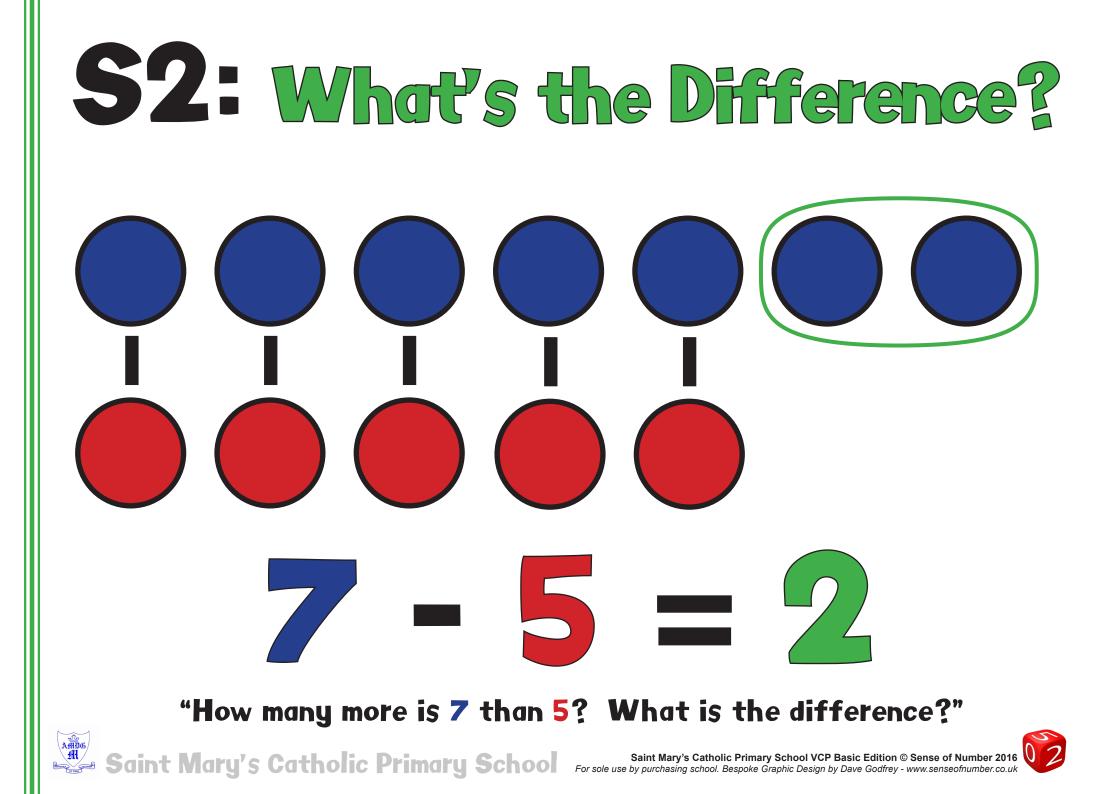


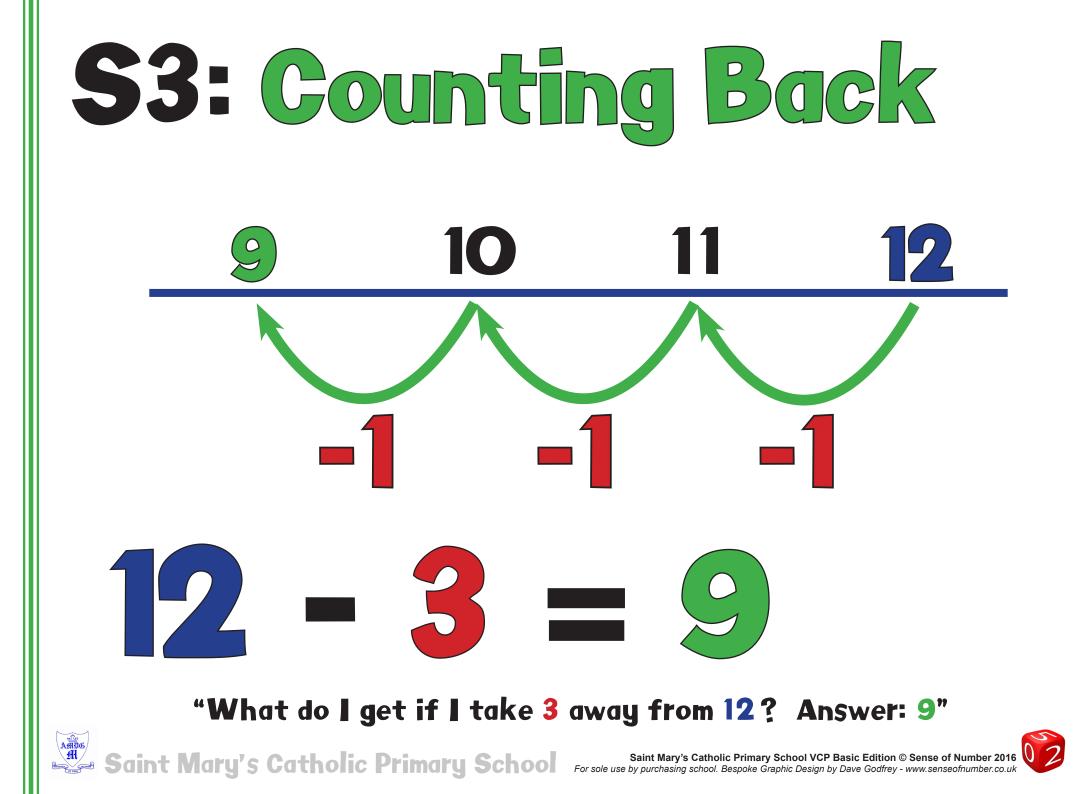


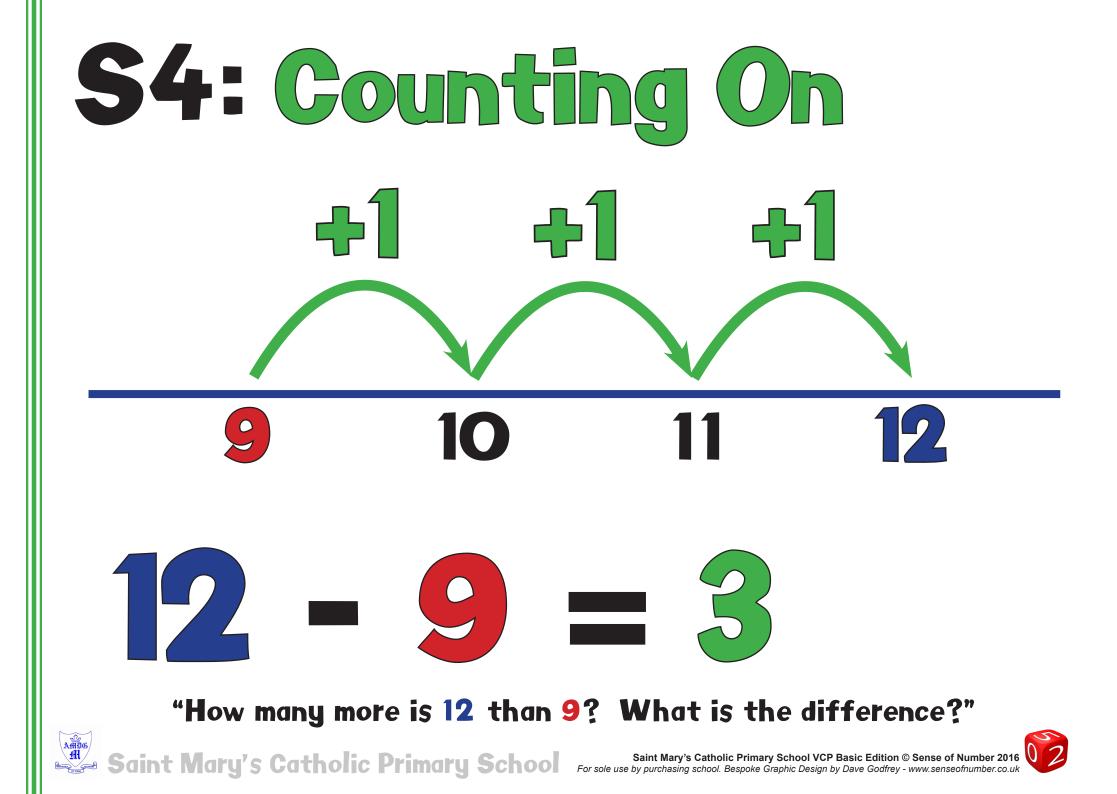


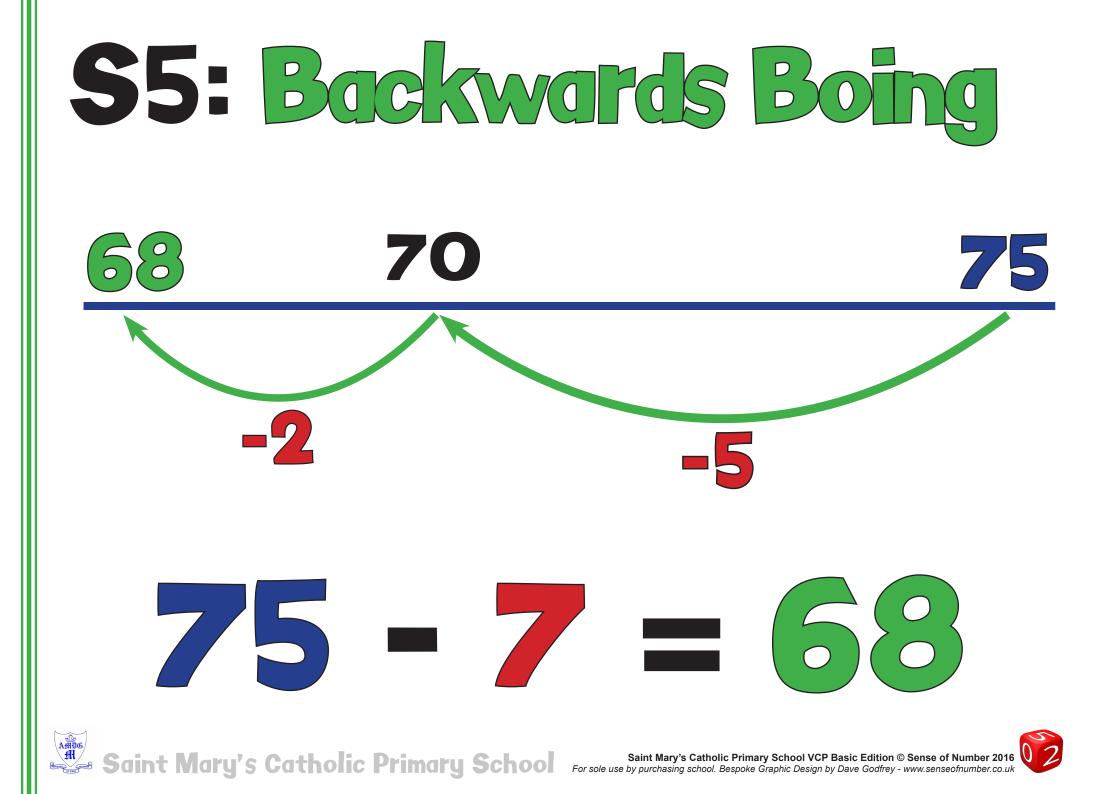


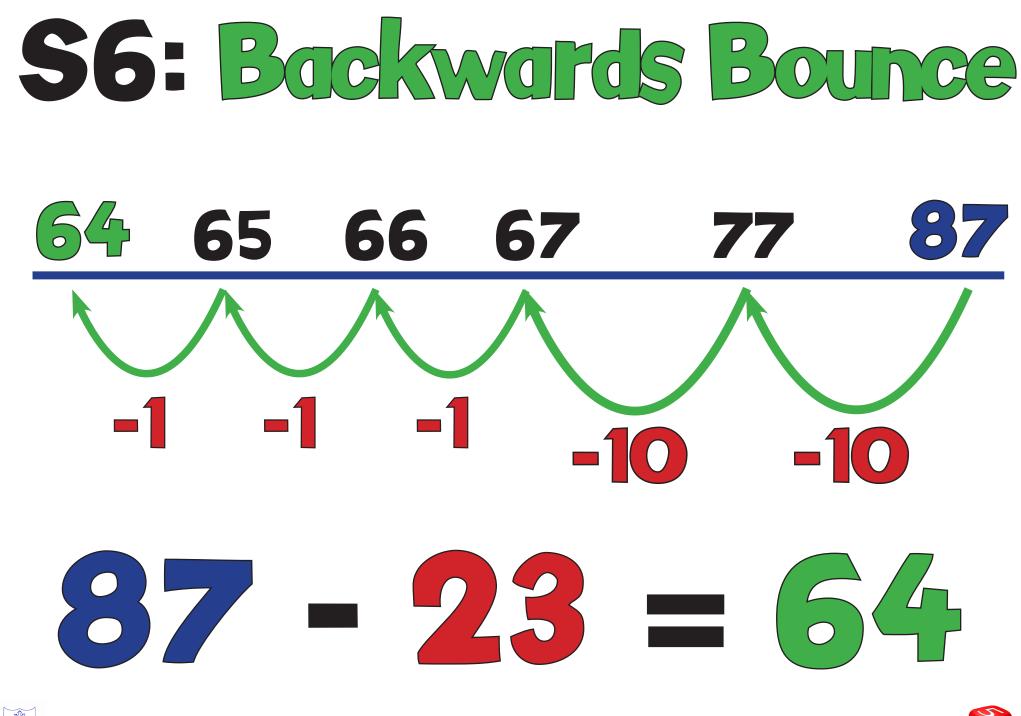




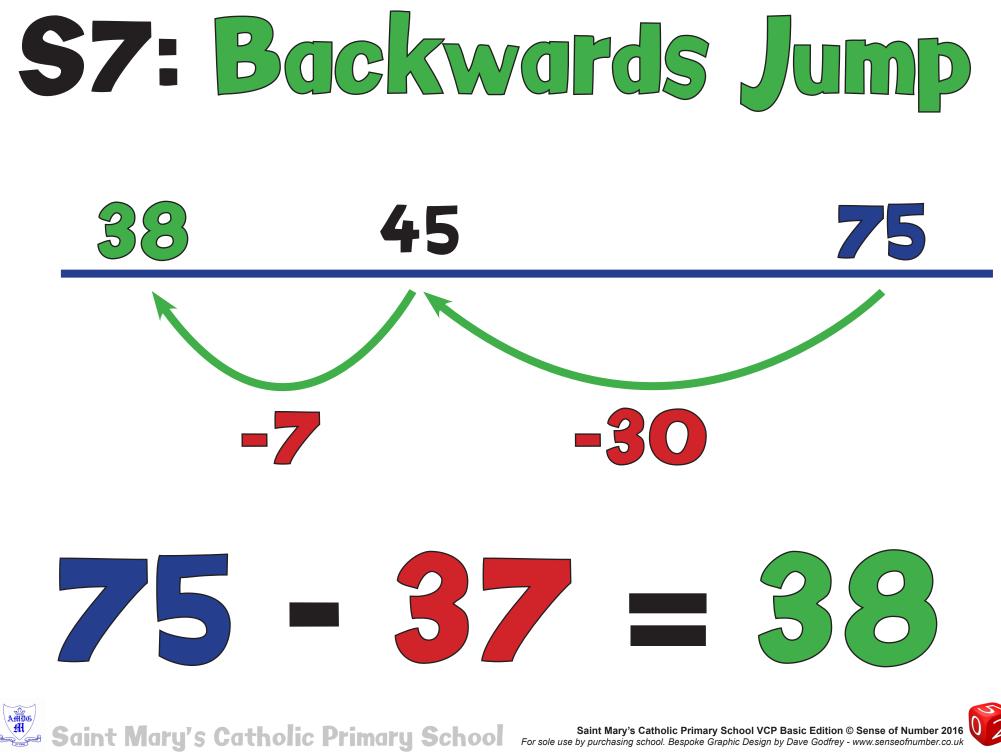


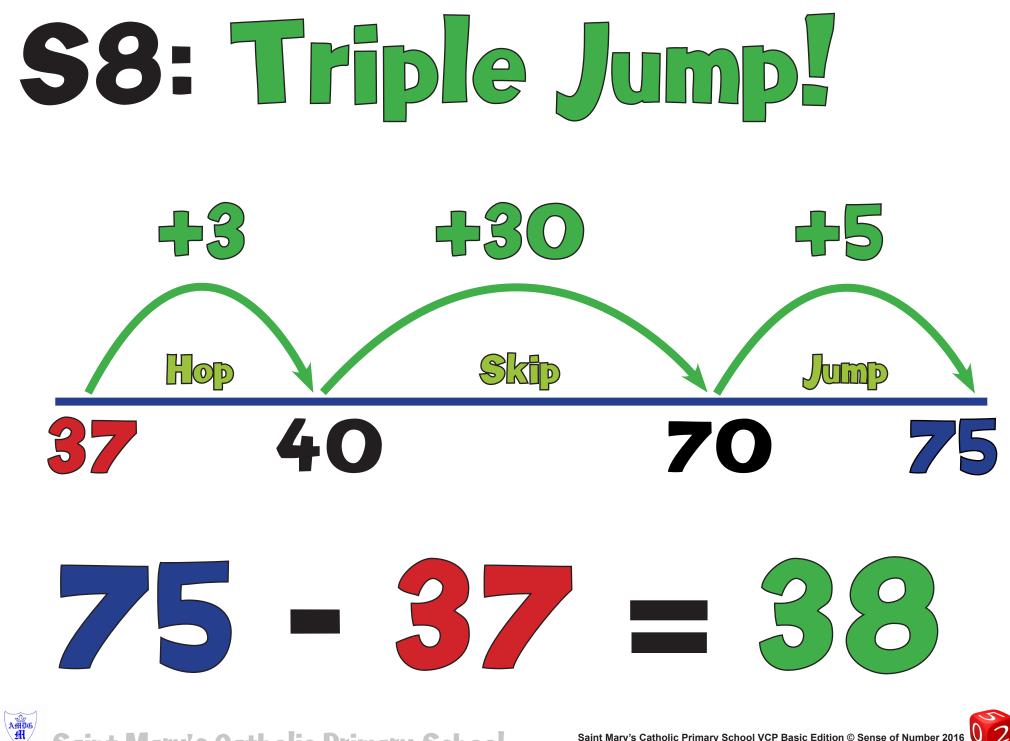


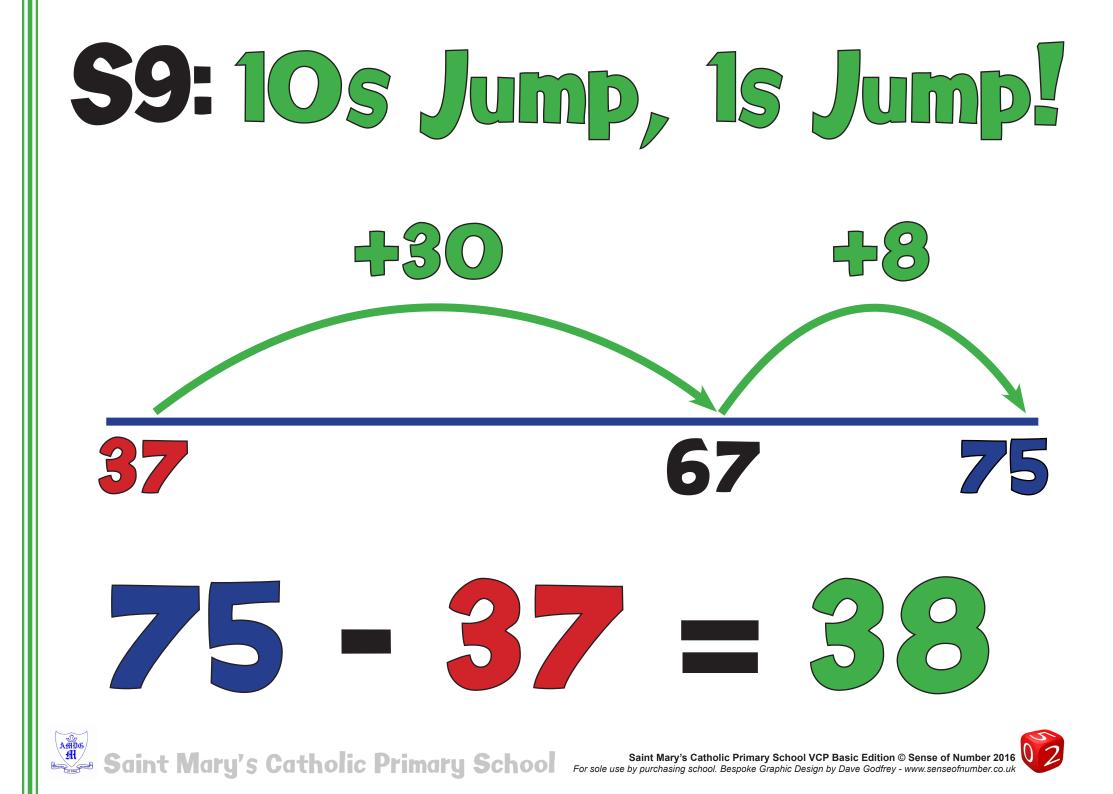


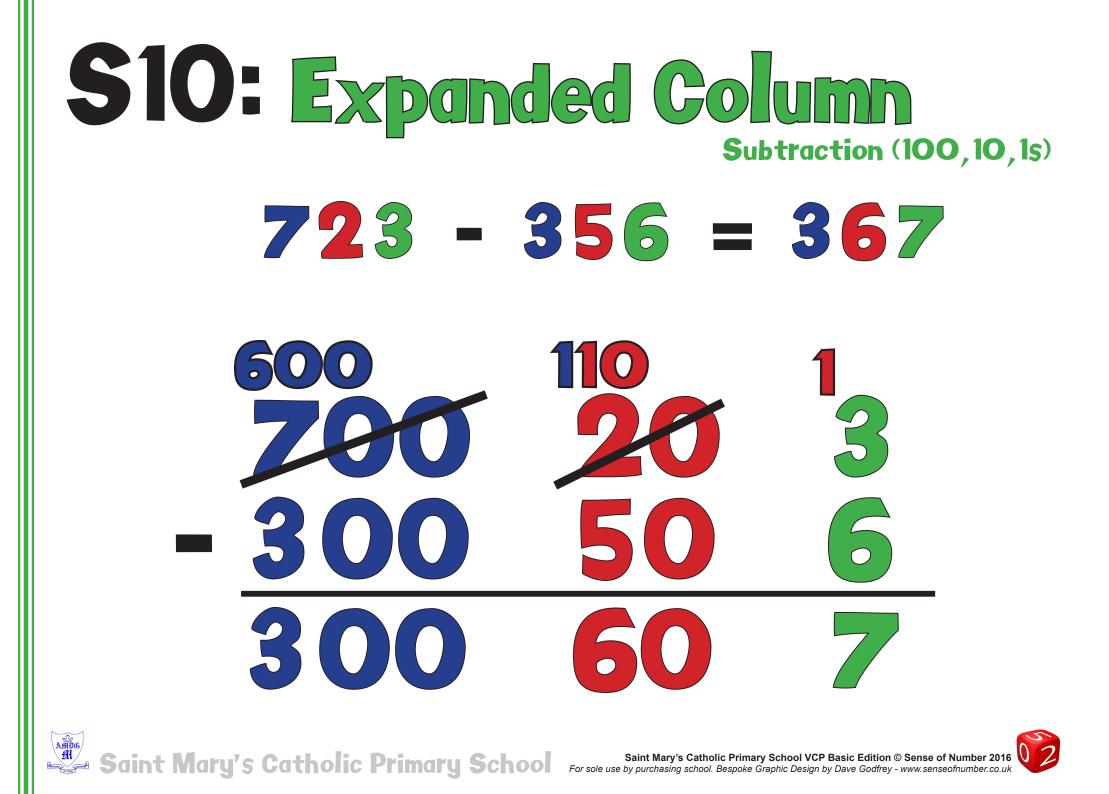








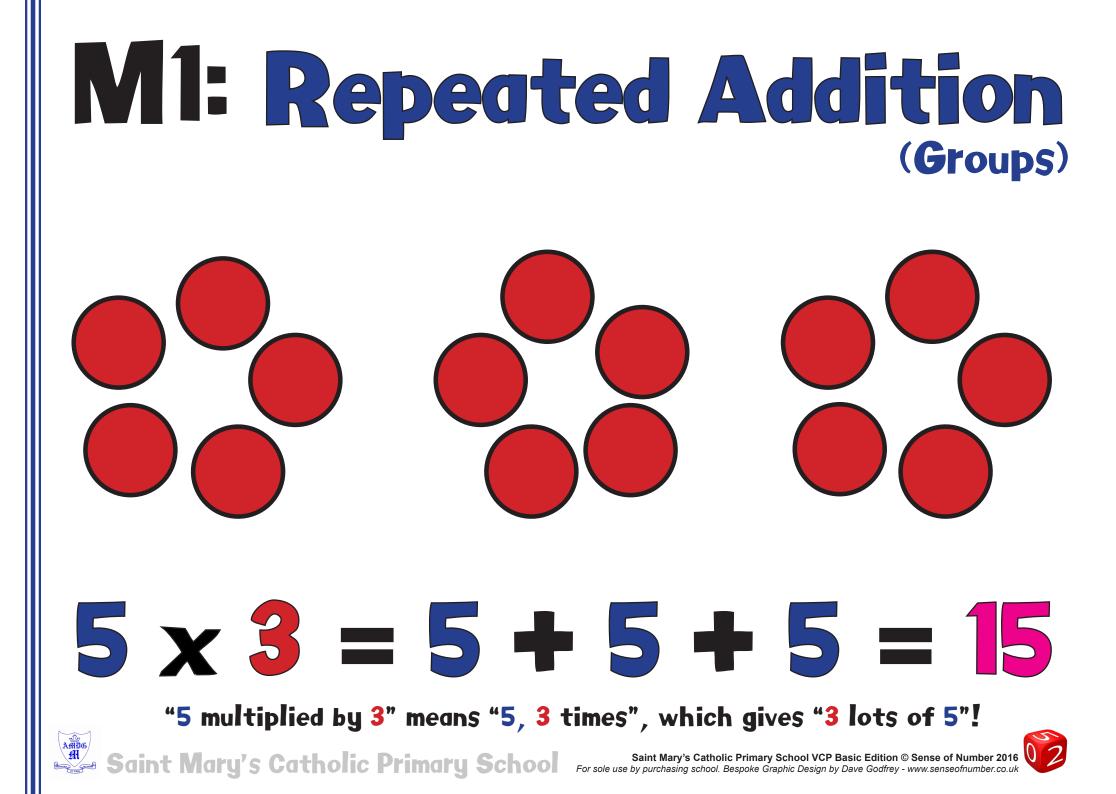


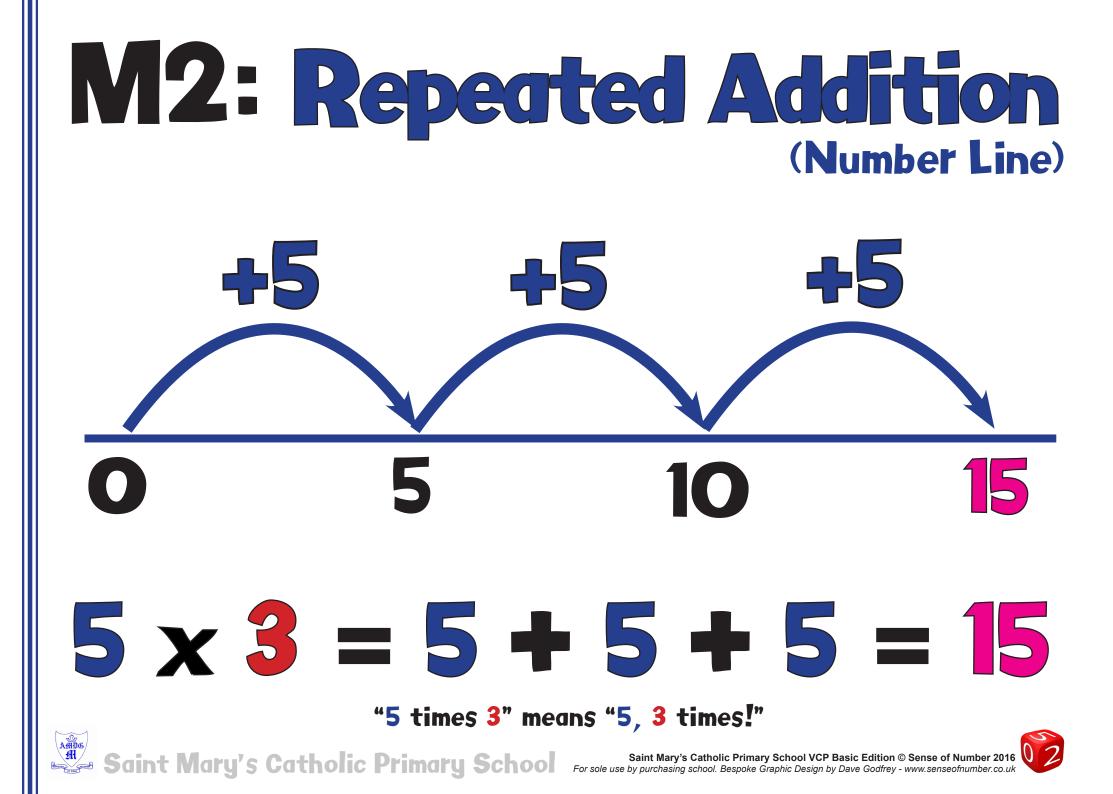


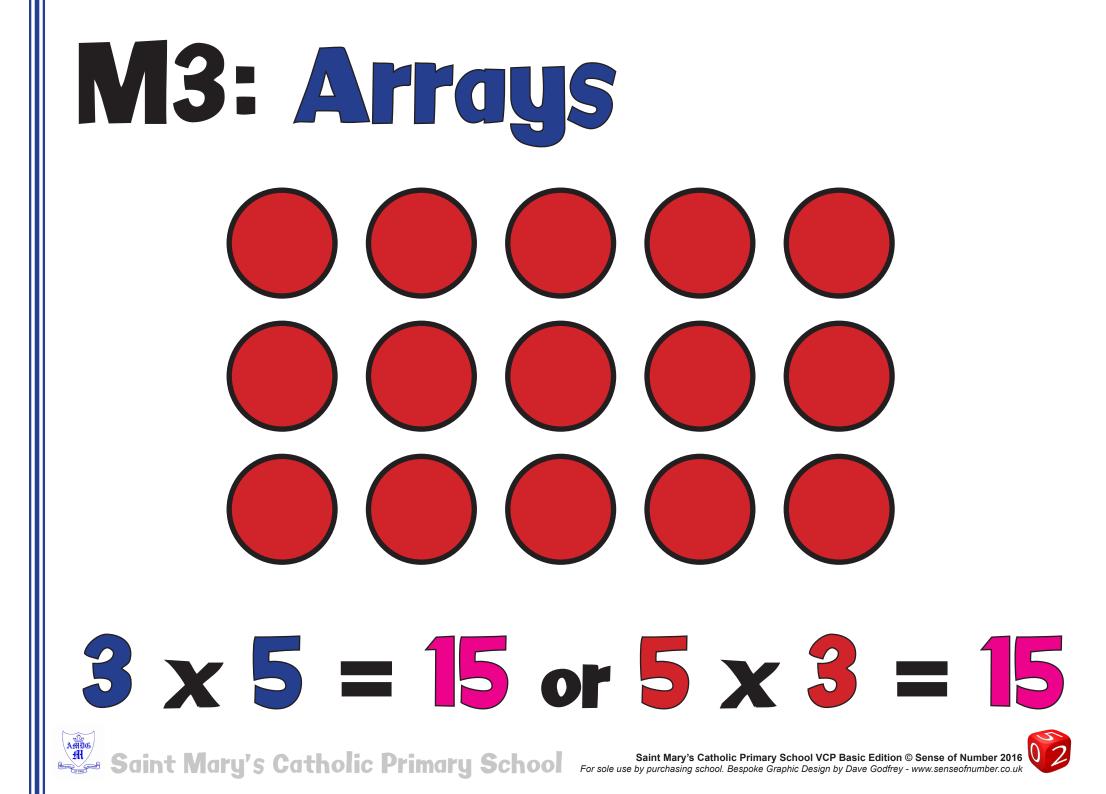
S11: Column Subtraction

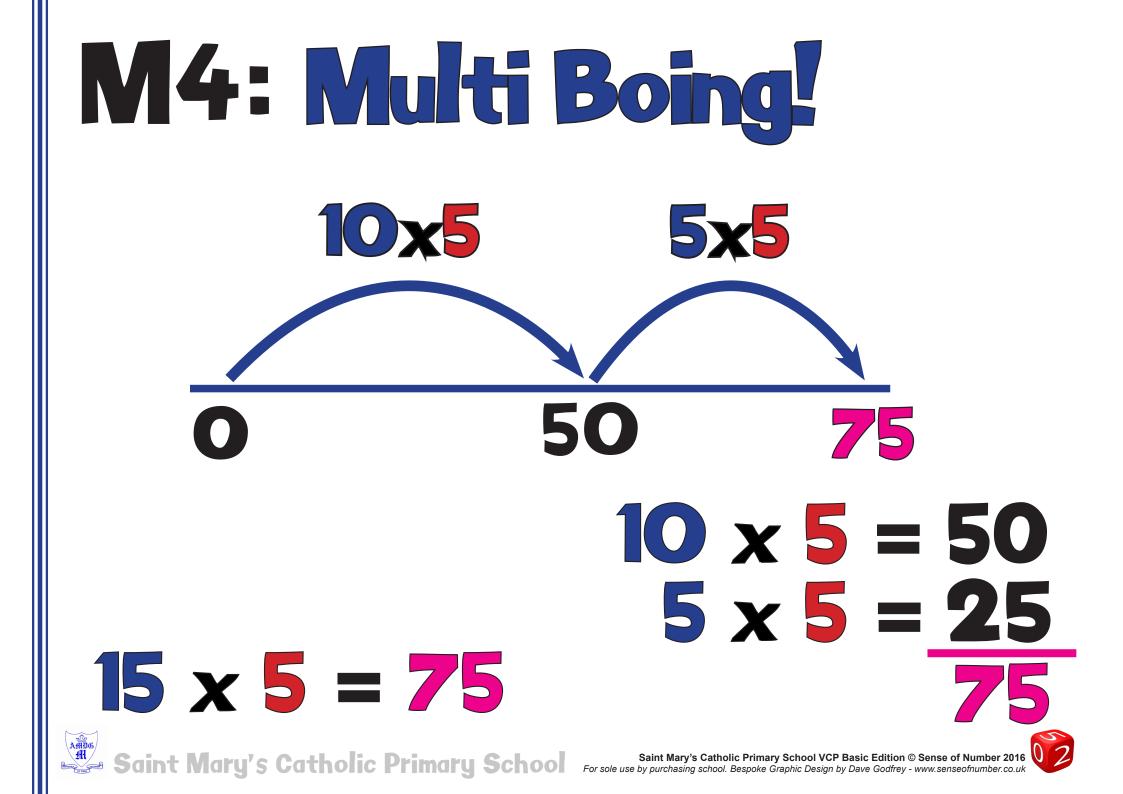
AMB6 M



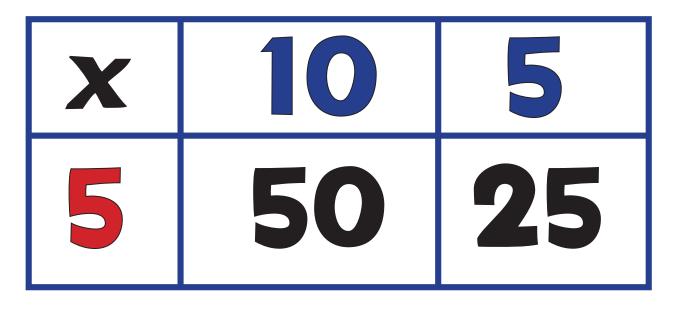








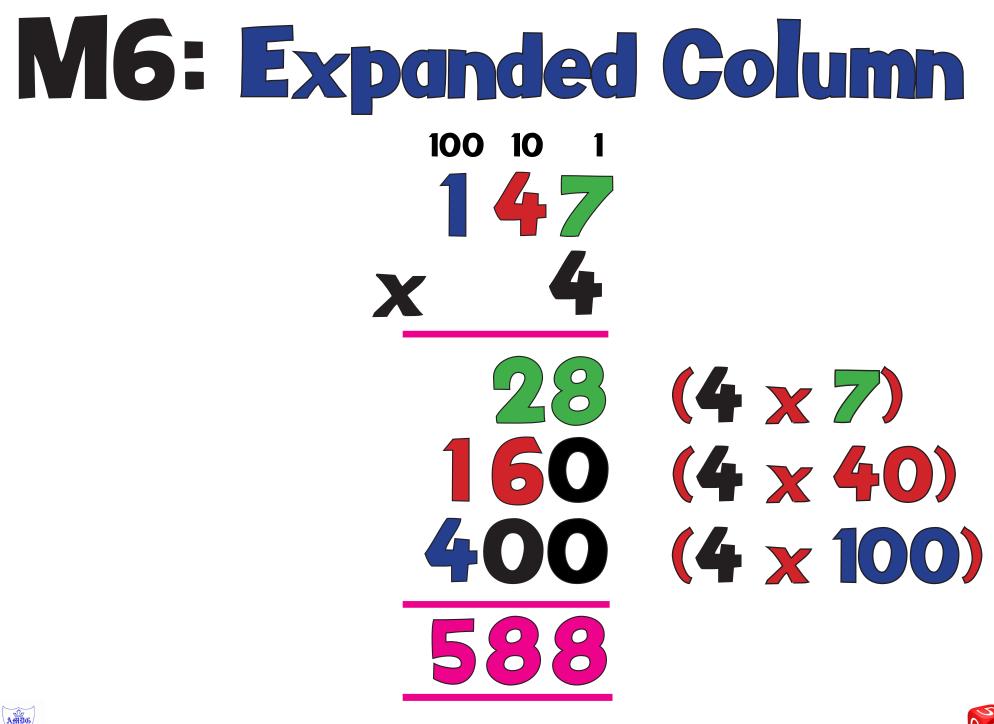
M5: Grid Method **Short Multiplication** $15 \times 5 = 75$

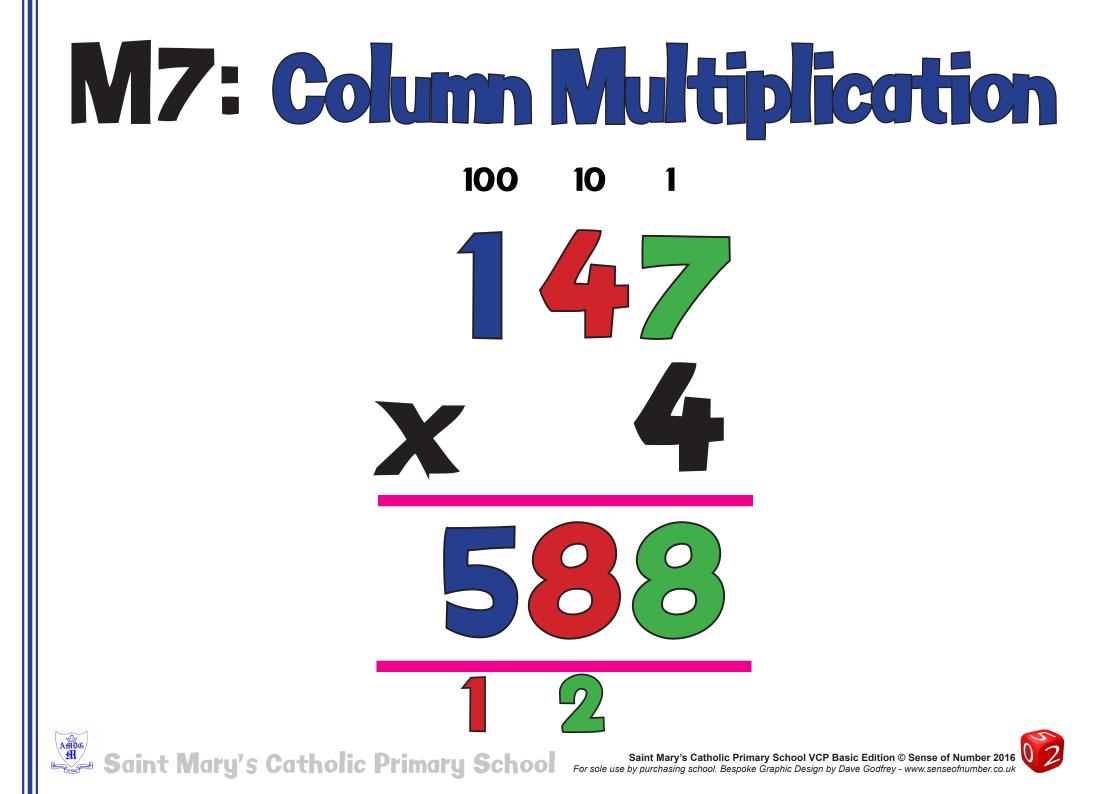


50 + 25 = 75





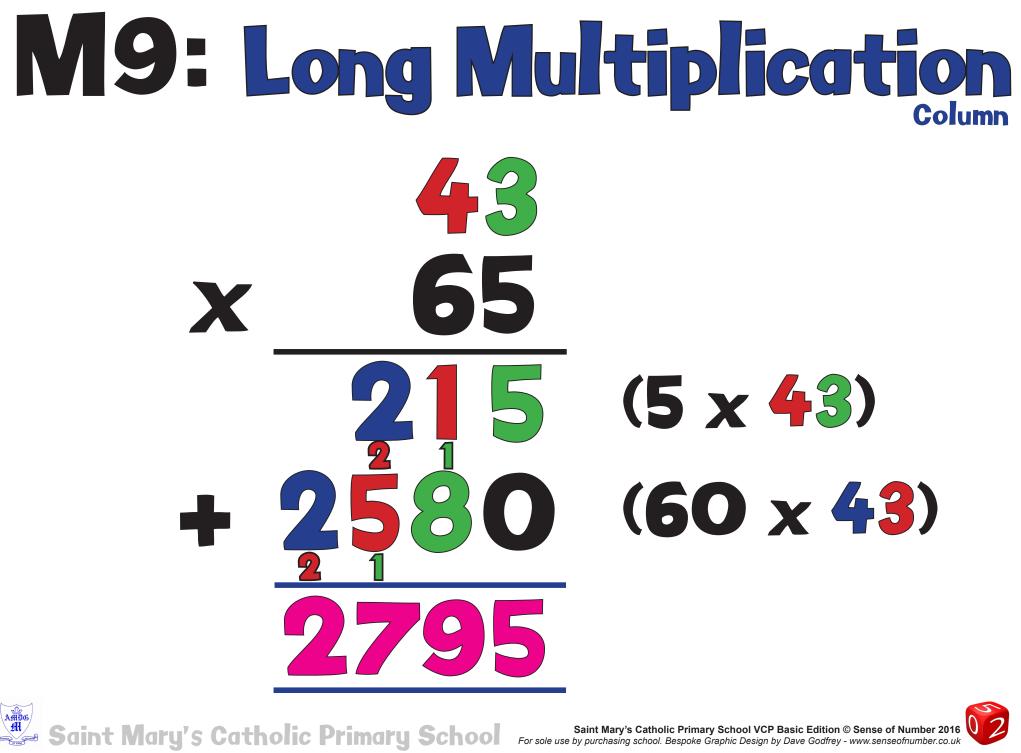


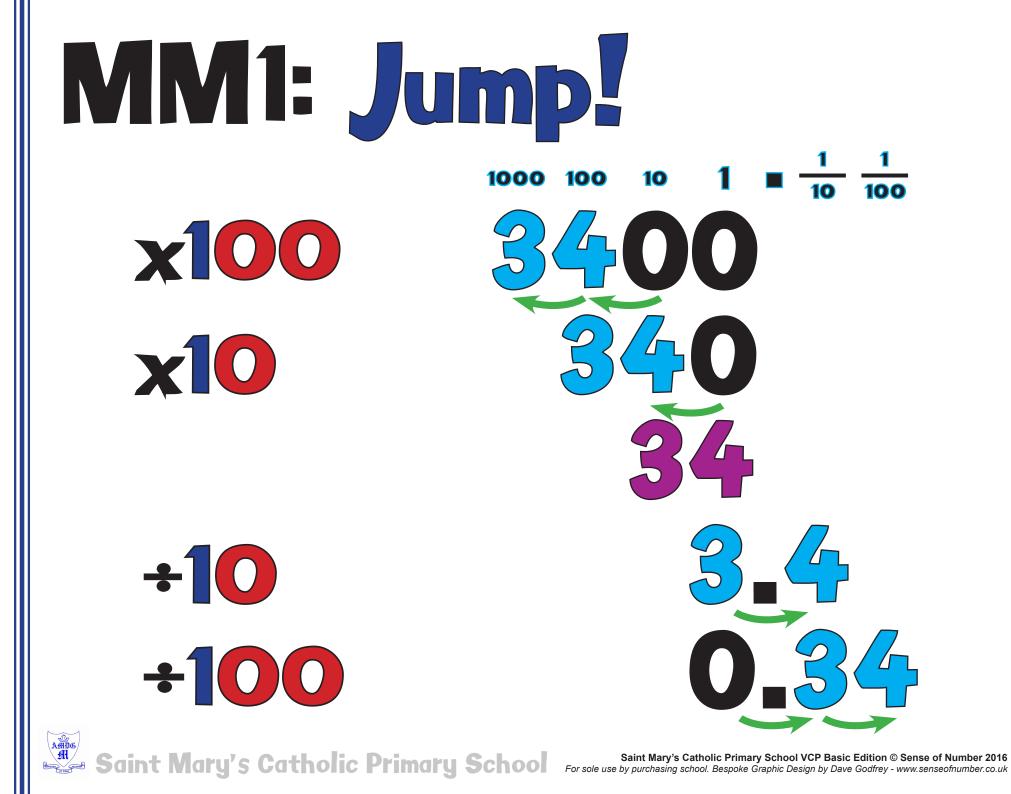


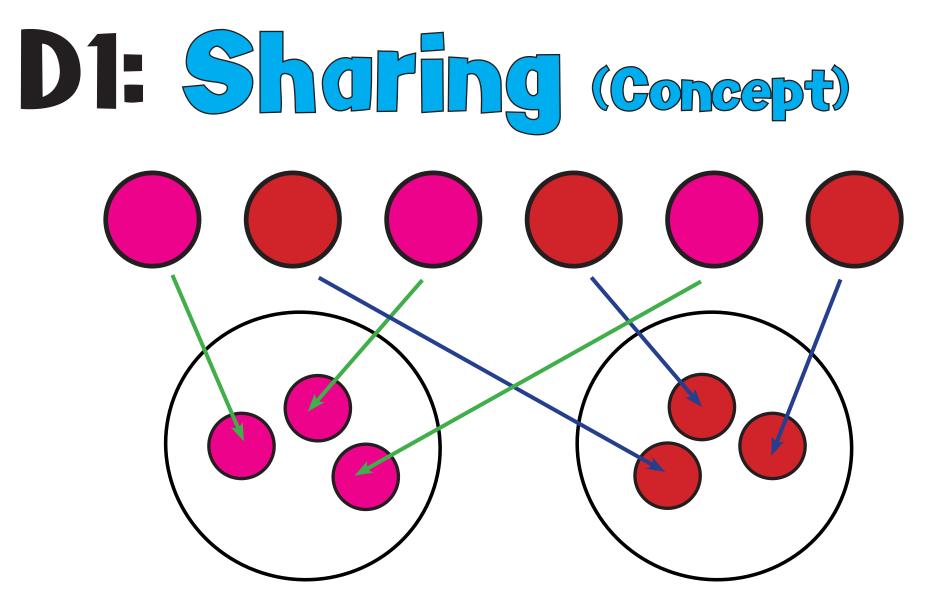
M8: Grid Method Long Multiplication $43 \times 65 = 27$ 40 2400 180 200 15

2400 + 180 + 200 + 15 = 2795







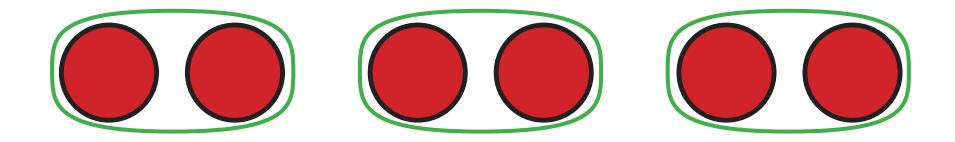


"If I share 6 into 2 equal amounts, how many in each group?" Answer: 3



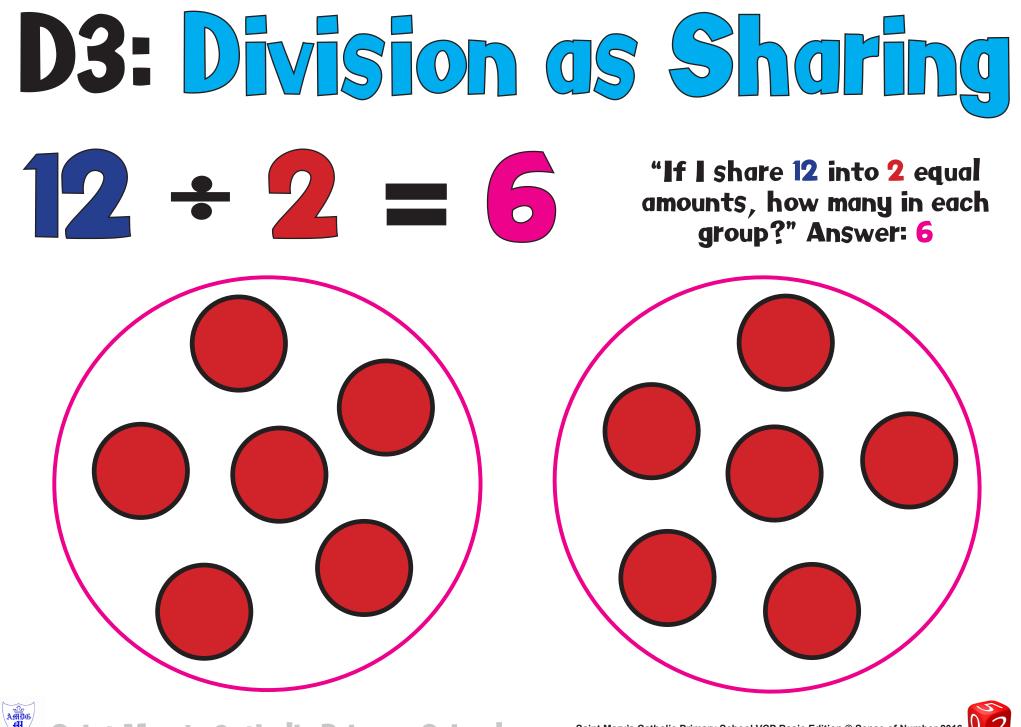






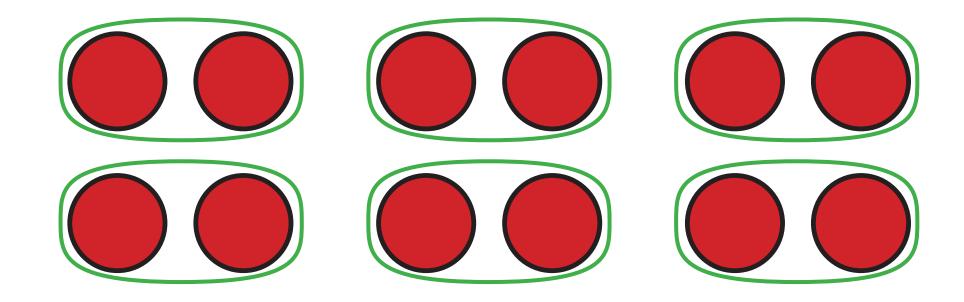
"How many groups of 2 can I make out of 6? Answer: 3



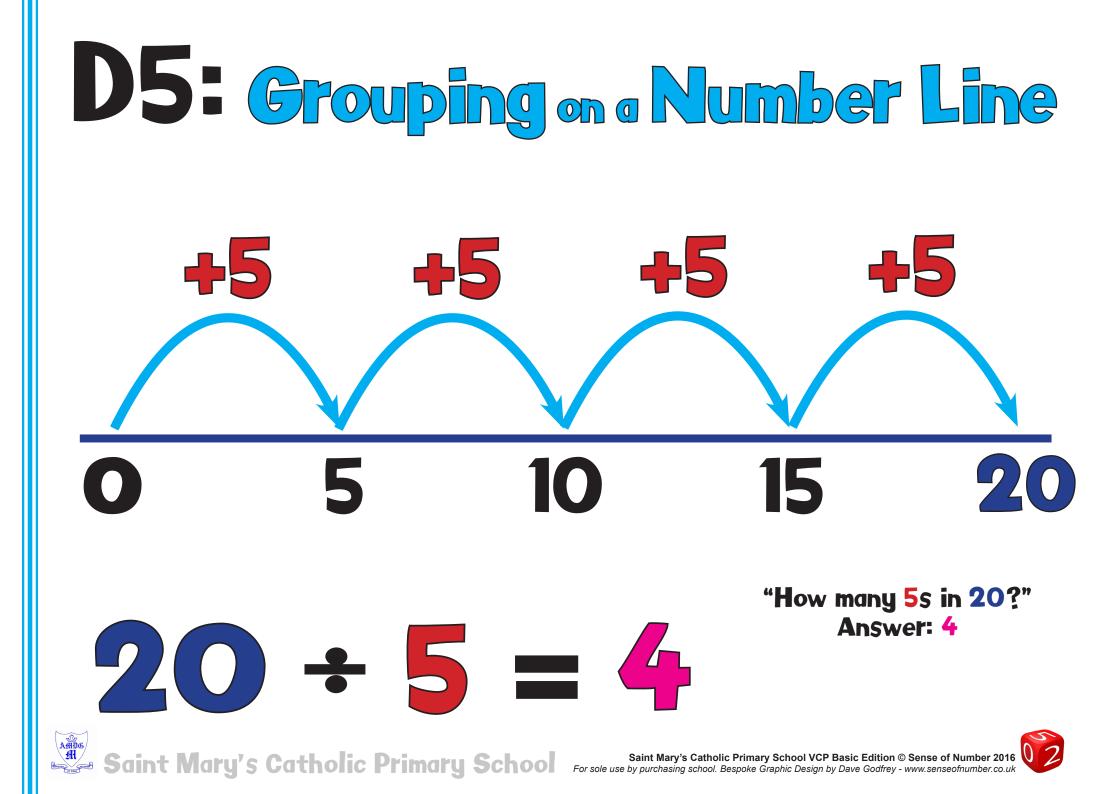


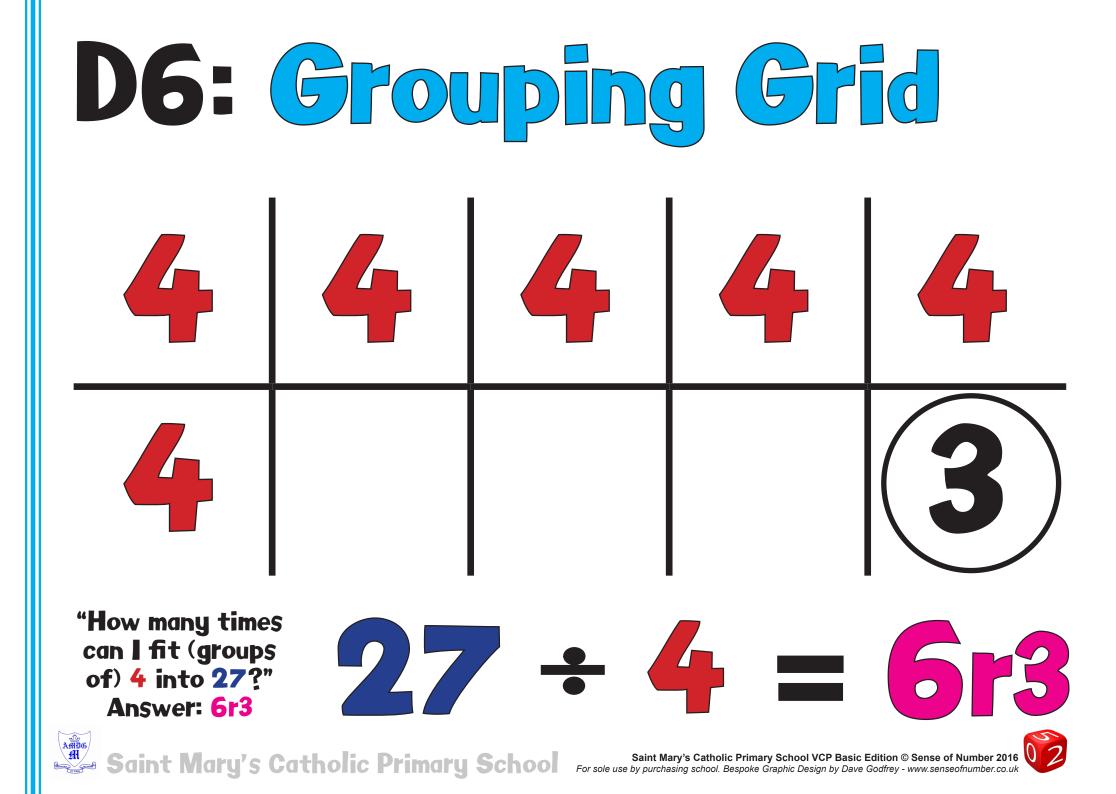


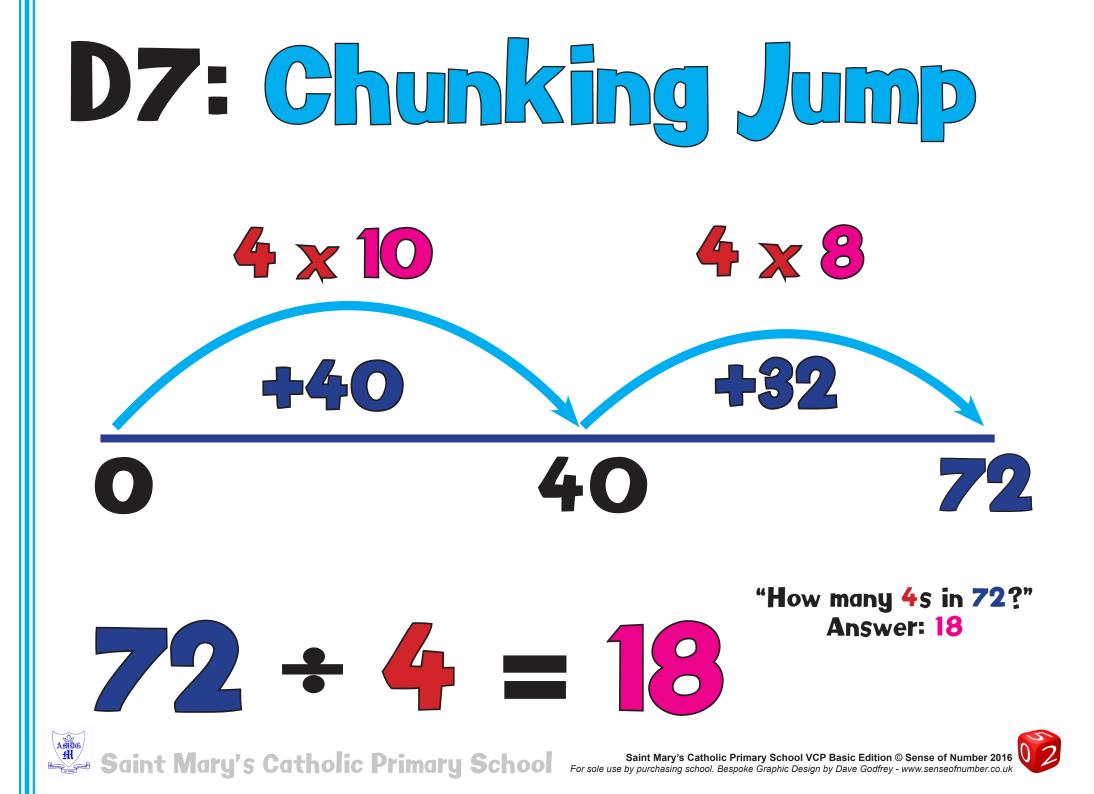
D4: Division as Grouping $12 \div 2 =$ "How many groups of 2 5 can | fit into 12?" Answer: 6





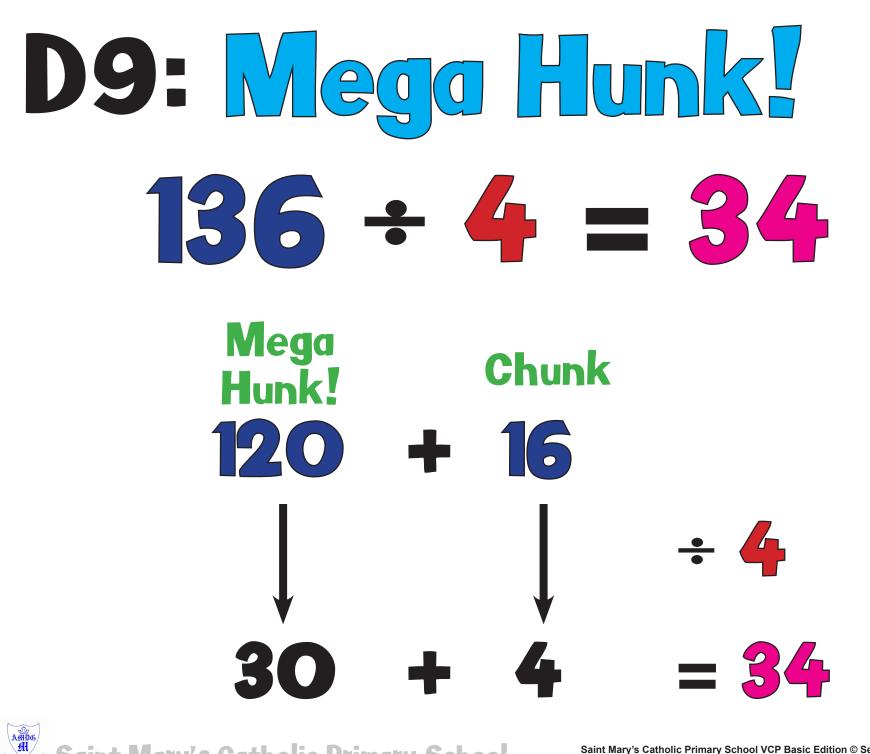




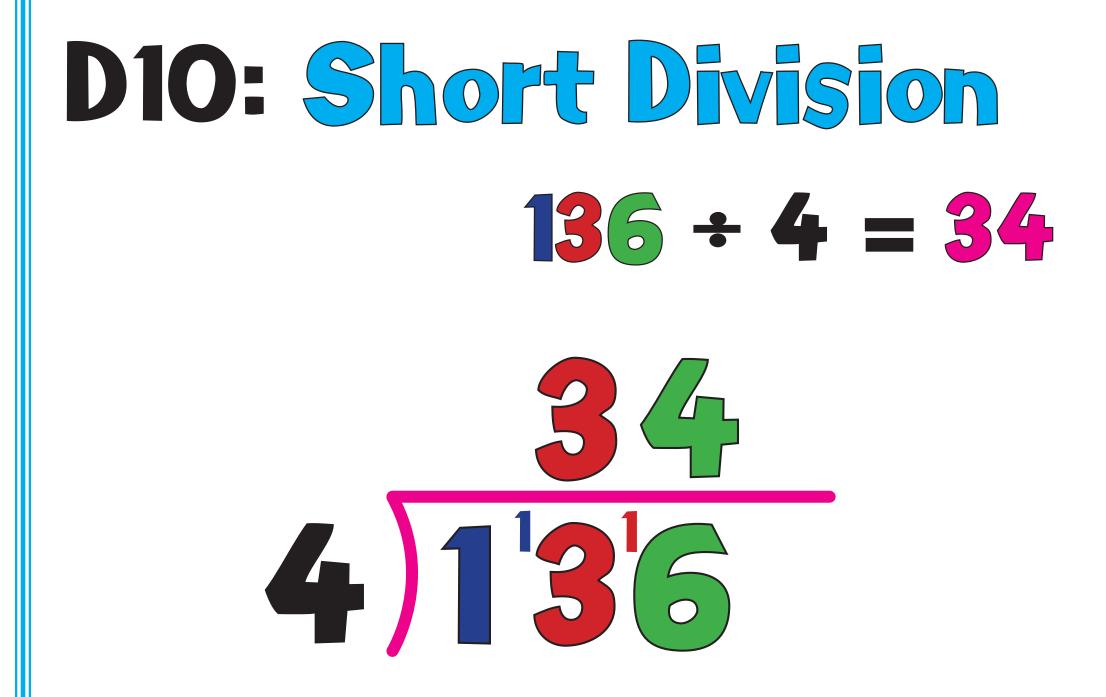


D8: Find the Hunk! $72 \div 4 = 18$ The Chunk Hunk! 40 32 + 8 18

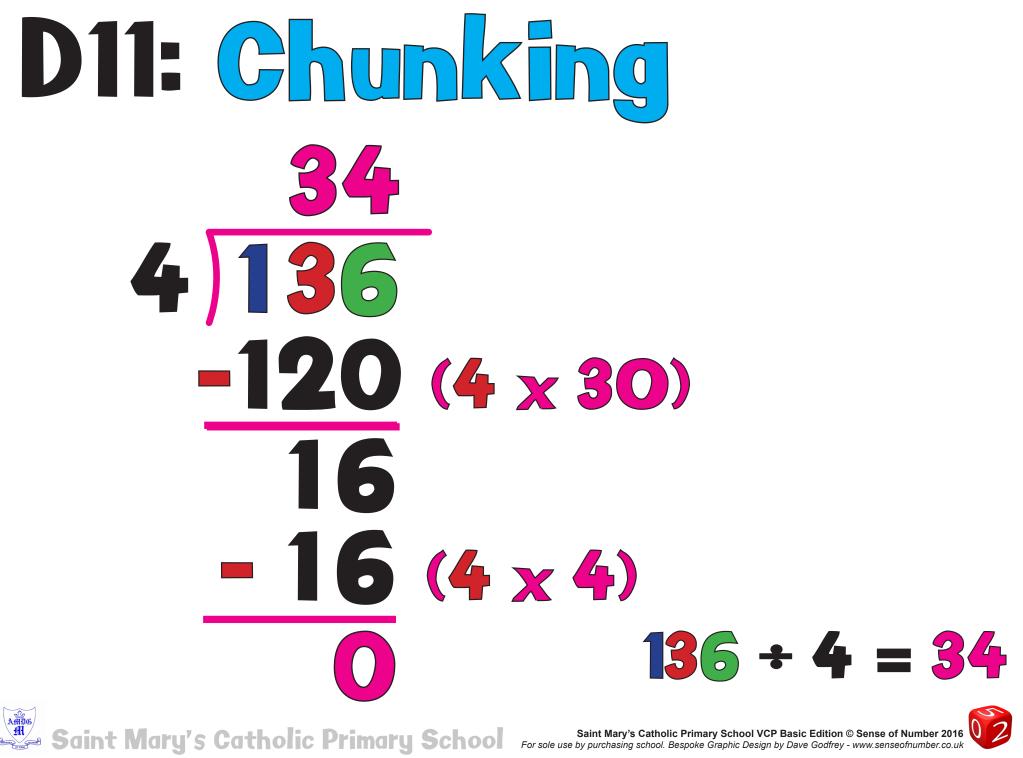








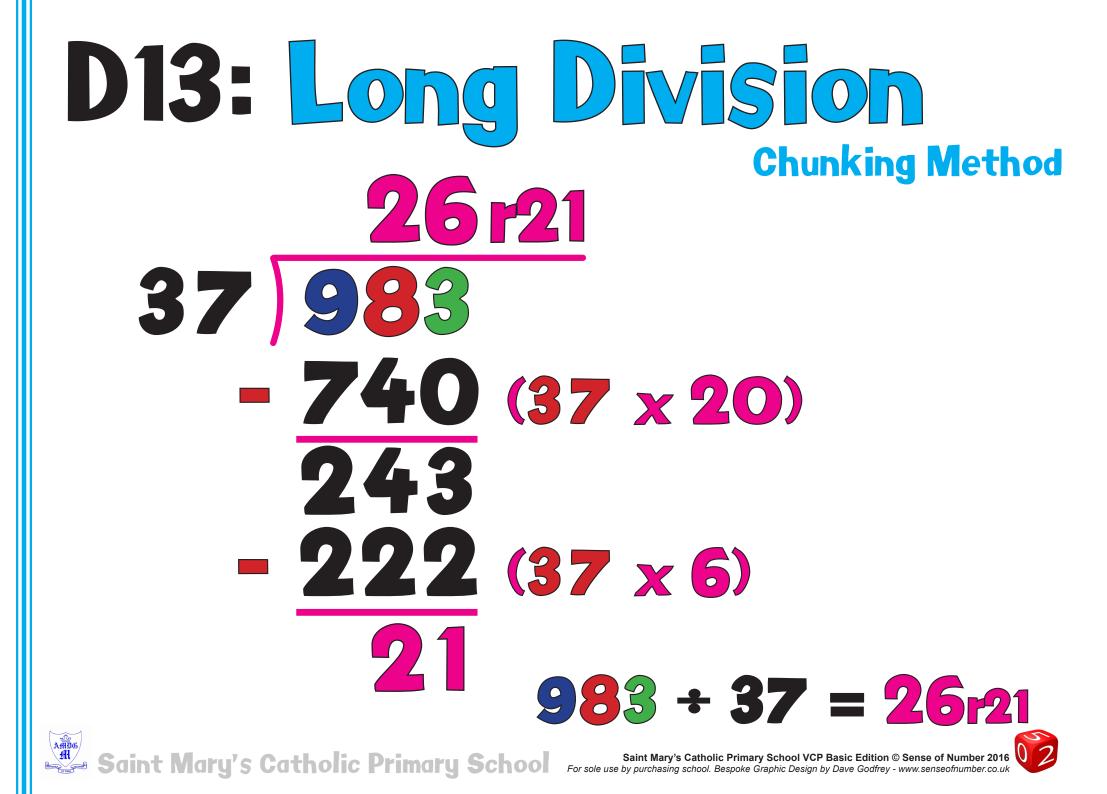


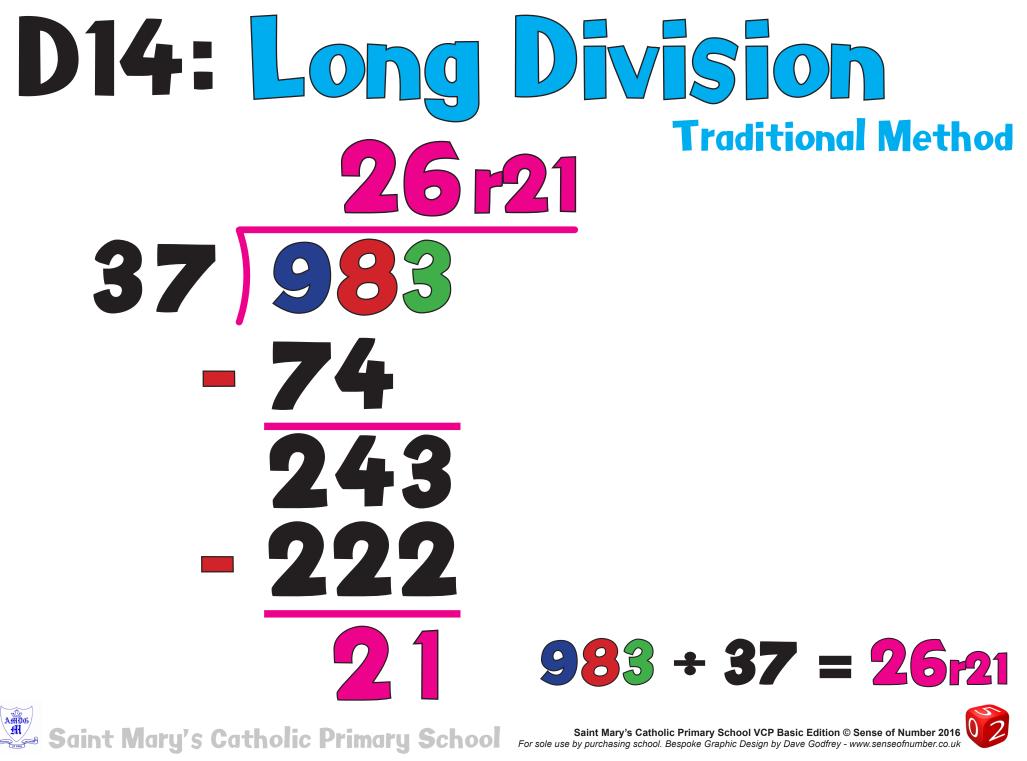




267**2**1 37 98





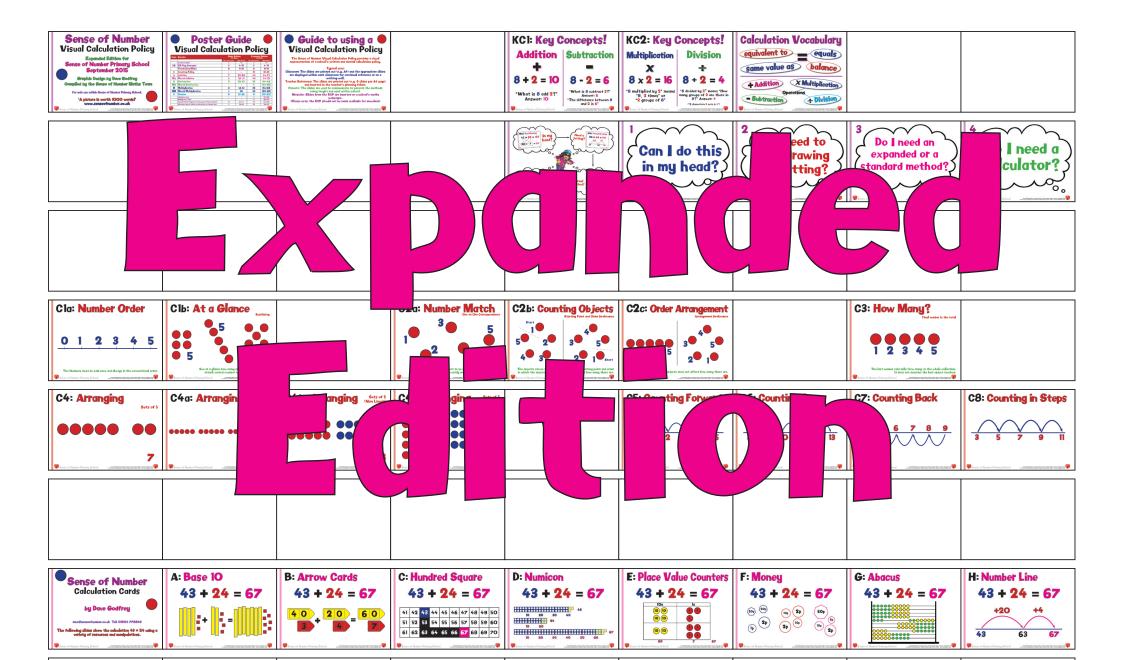


Sense of Number Visual Calculations Policy

Expanded Edition 2014 by Dave Godfrey, Anthony Reddy and Laurence Hicks

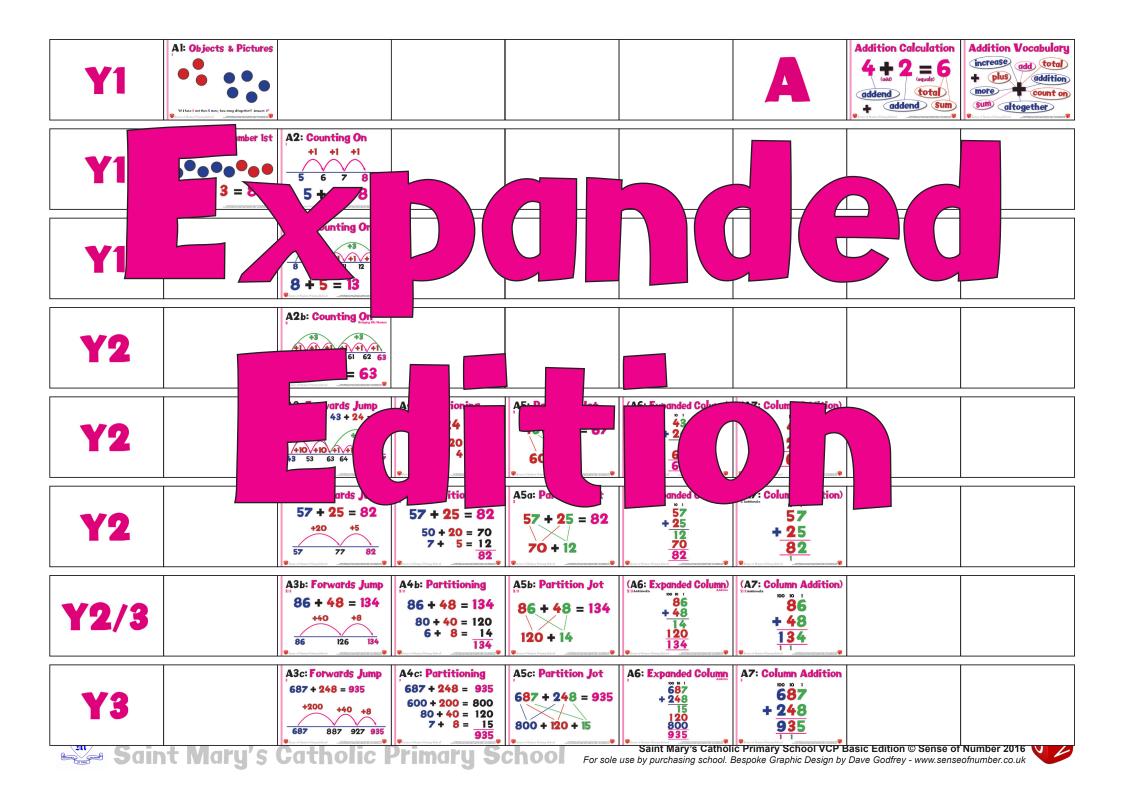
The following pages contain a snapshot of the 235 slide, Sense of Number Expanded Edition of the VCP. It contains a Counting Policy, leveled progression of strategies found in the Basic Edition and additional Subtraction & Multiplication Mental Method slides.

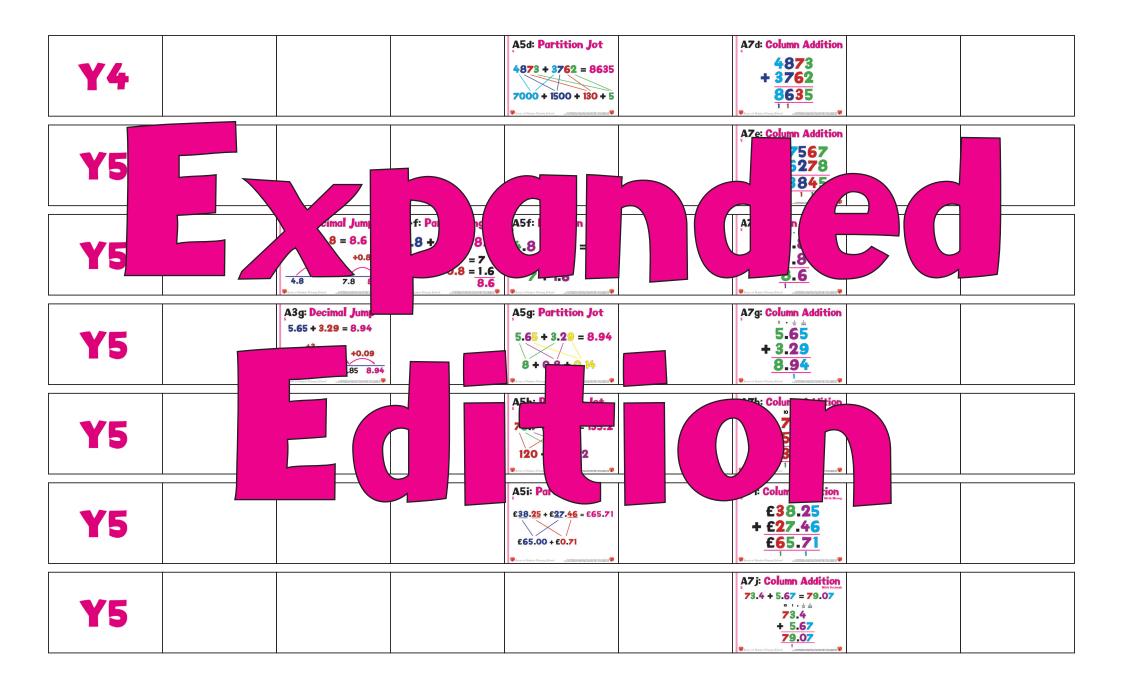
This edition is also available for bespoke preparation at additional cost of £130.



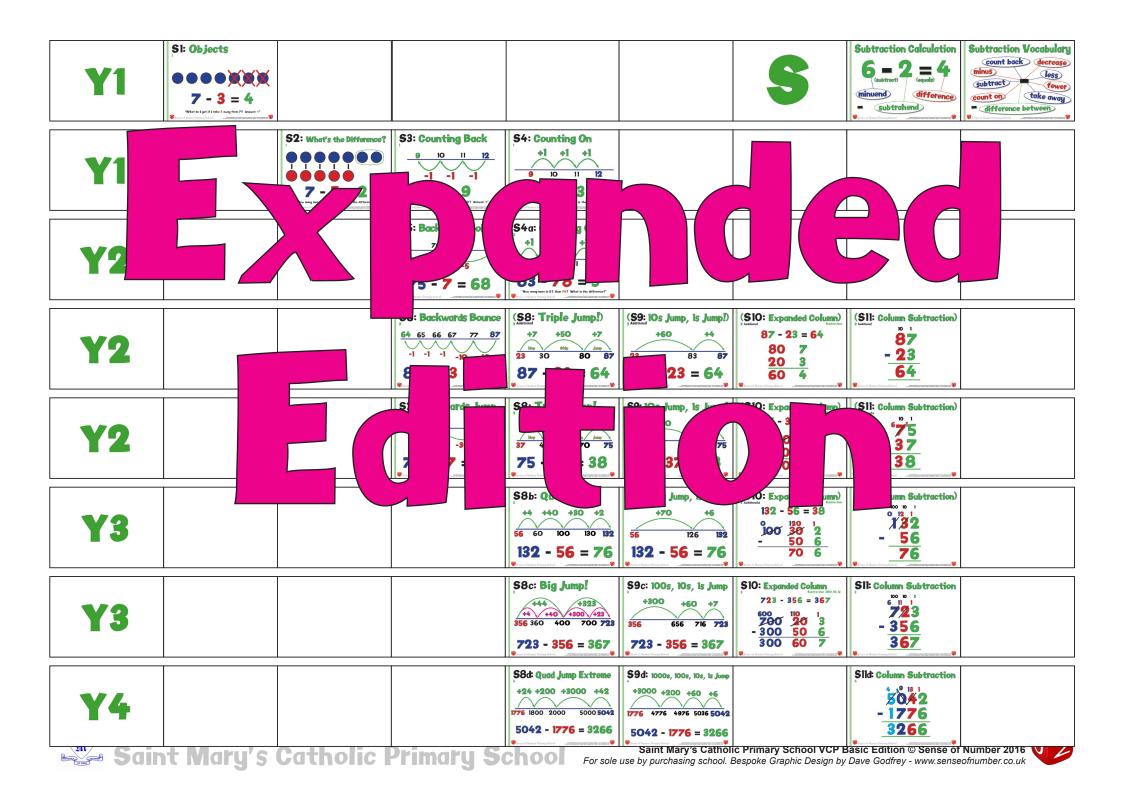
Saint Mary's Catholic Primary School

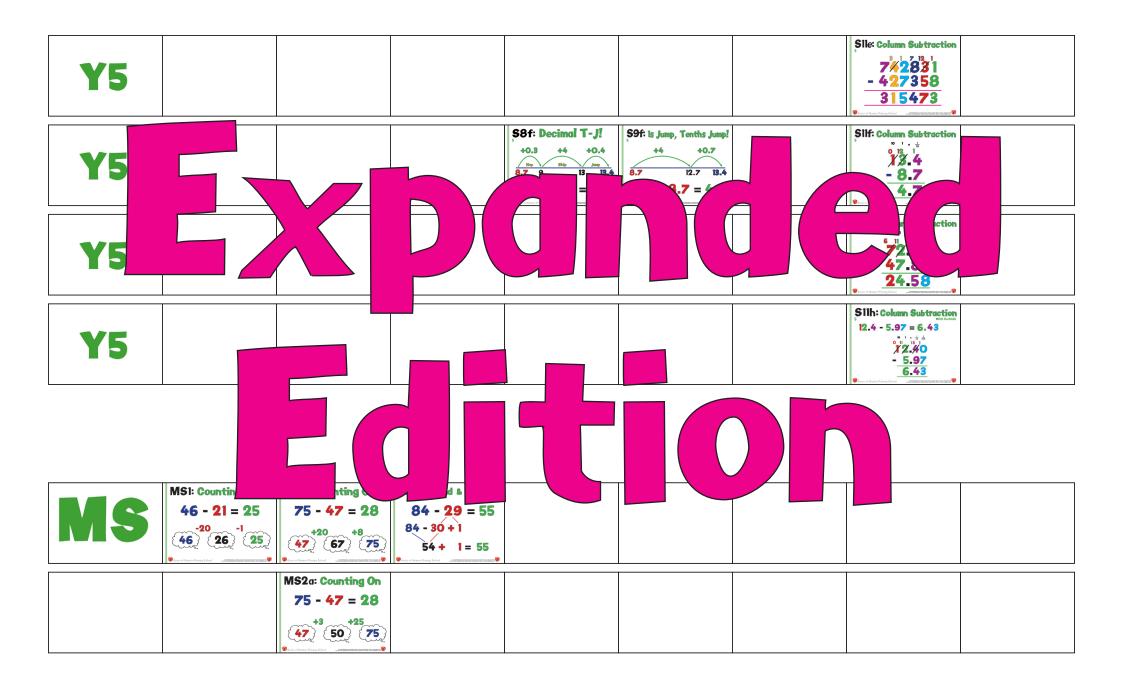




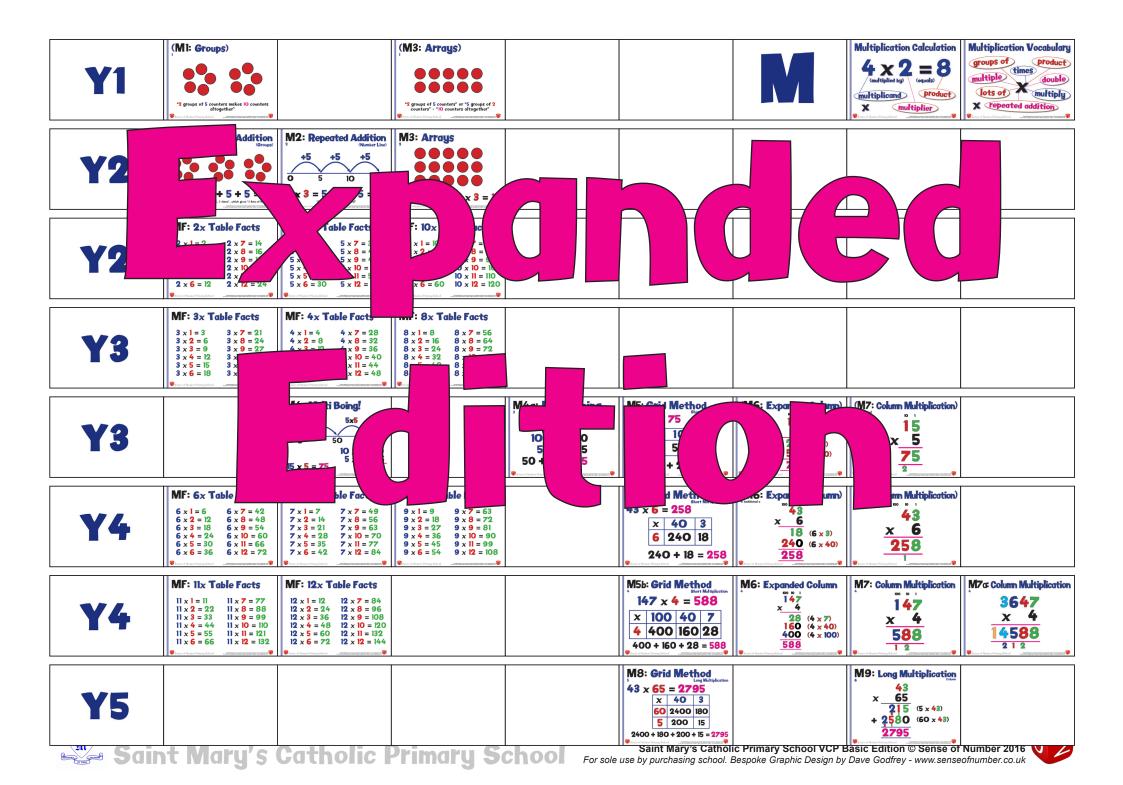


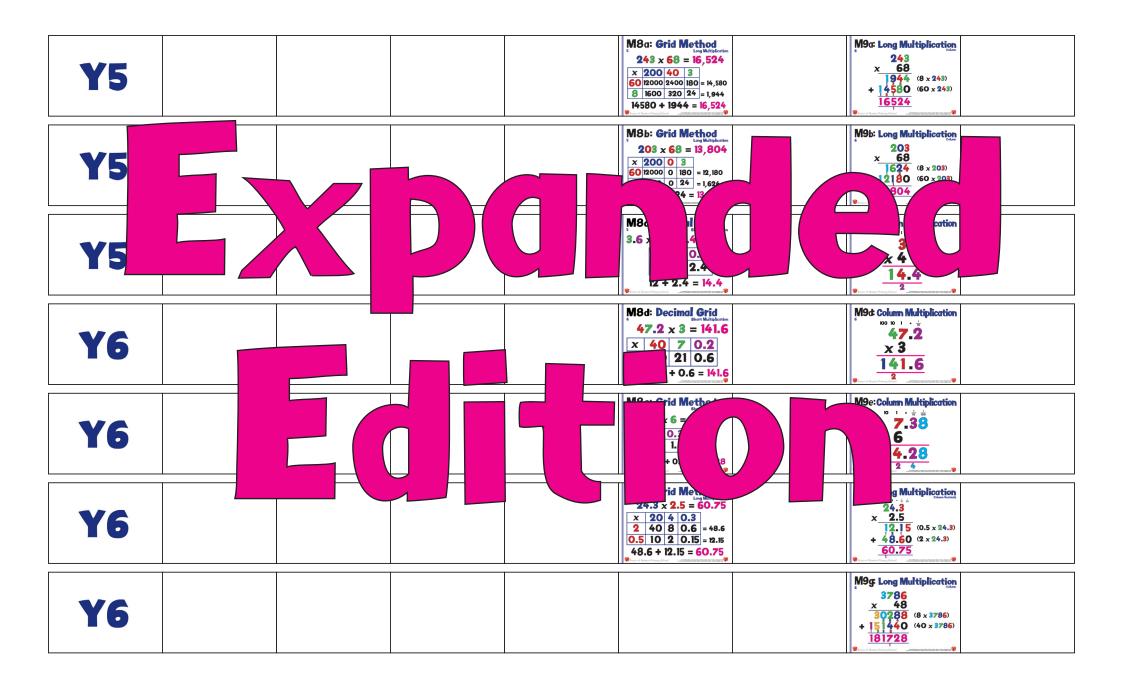






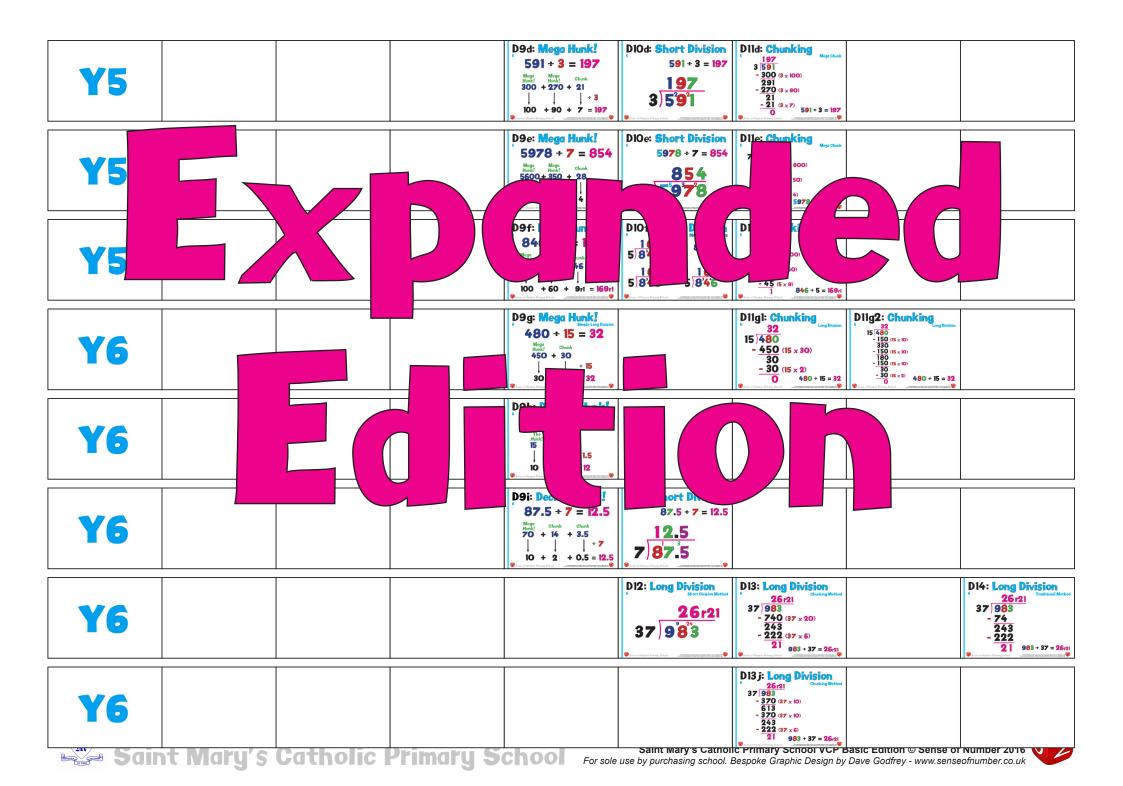


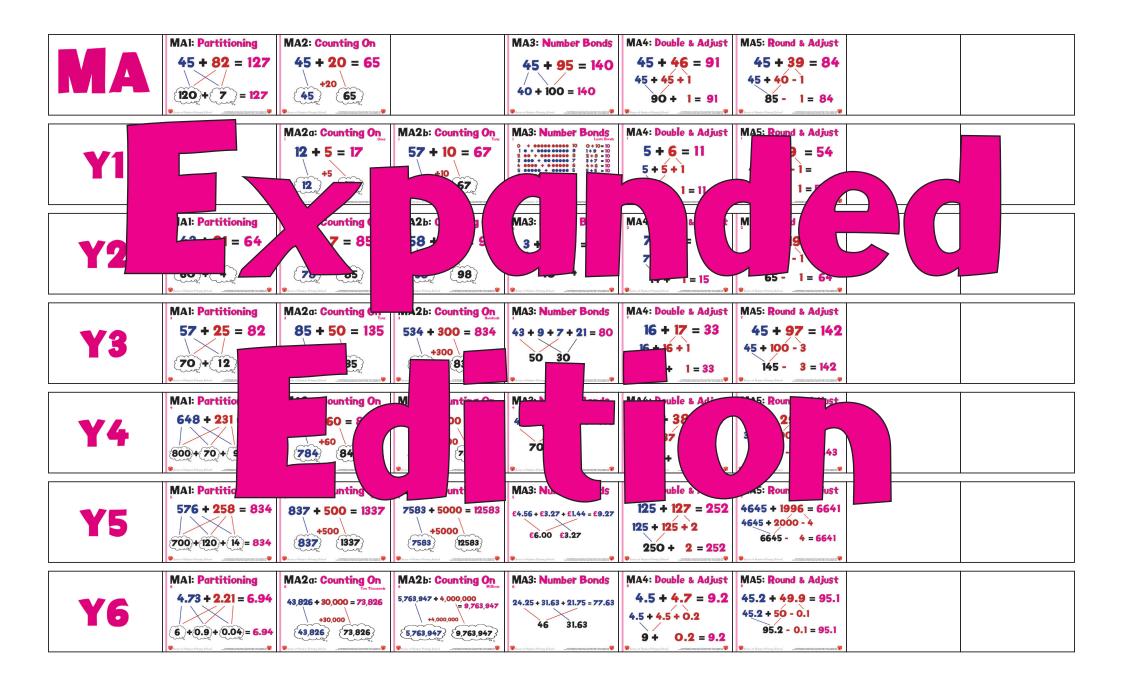




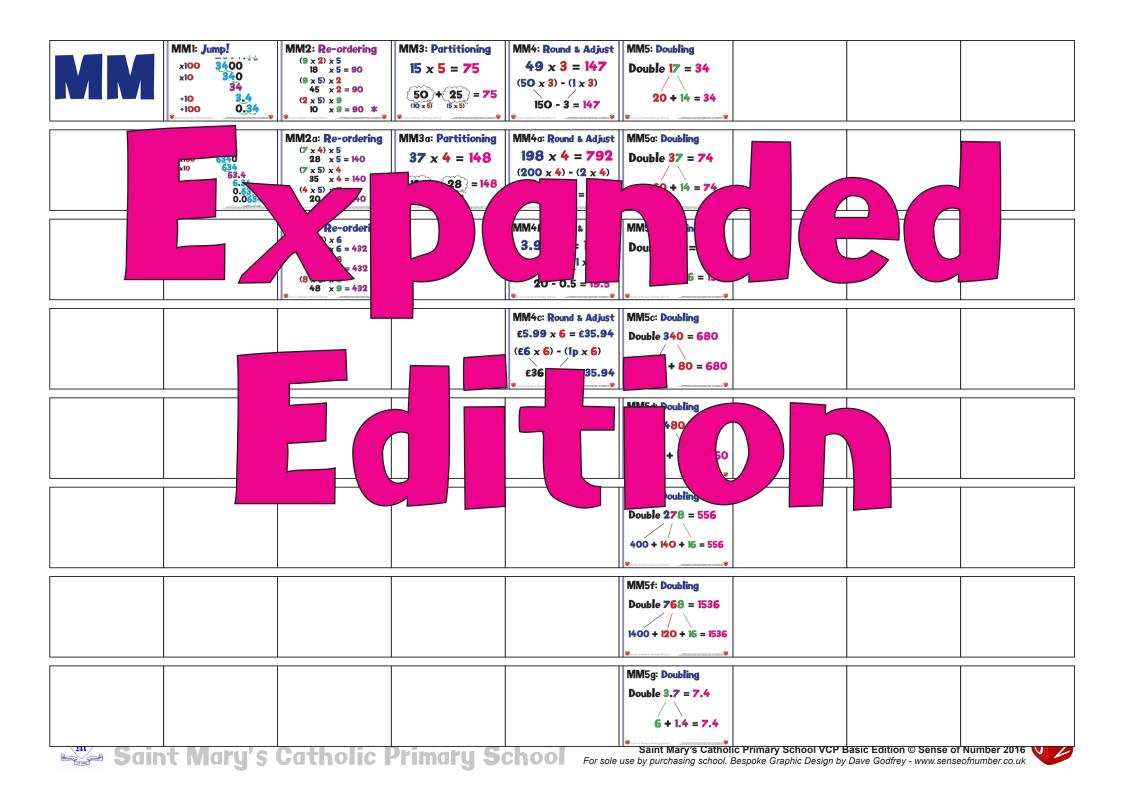


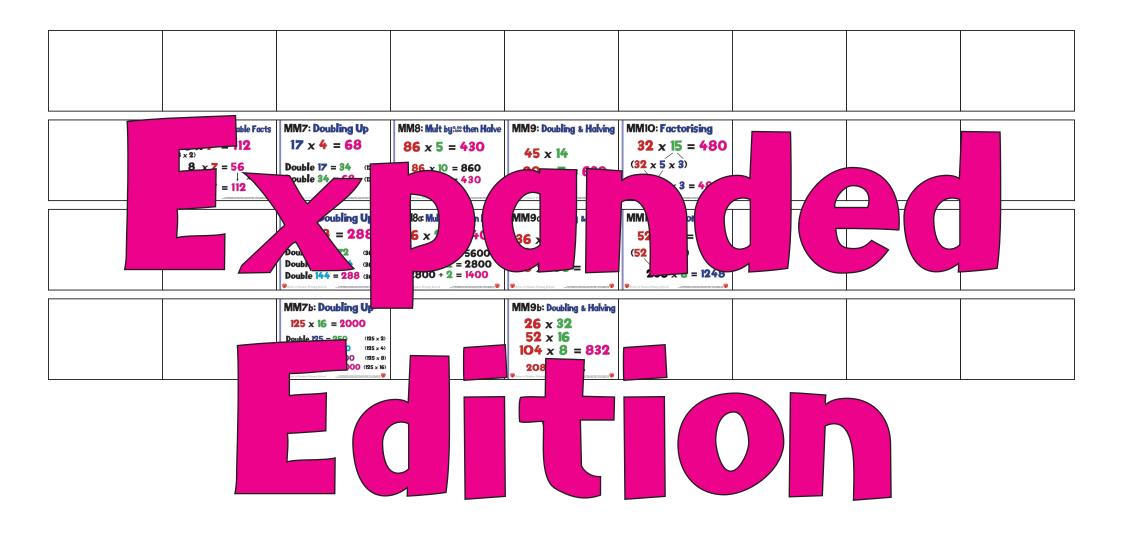
Y1	Pl: Sharing (Concept)	P2: Grouping (concept)				D	Division Calculation 8 ÷ 2 = 4 (dividend) (quotient) ÷ (divisor)	Division Vocabulary remainder group share thalve divisor factor quotient equal groups of divide
Y2	Sharing Later bin each Sharing Control of the state Sharing Control of the	D4: Division as Grouping 12 + 2 = 6 """""""""""""""""""""""""""""""""	D5: Grouping Number Line +5 +5 +5 +5 5 10 15 20 "					
Y2			to croup +5 +5 +5 +5 +5 +5 +5 +5 +5 +5					
Y3		D6: Grouping Grid 4 4 4 4 4 3 + = 6r3						
Y3			D2 ing here	De trans The Hunk 40 ↓ 10 Plan d'hun han 8 Plan d'hun han 8	(DIO) Chort Divic 72 1 7	8 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		
Y3			$\frac{4 \times 10}{4 \times 6} + \frac{4 \times 6}{4 \times 6} + \frac{1}{4 \times 6}$ $\frac{4 \times 10}{4 \times 6} + \frac{4 \times 6}{4 \times 6} + \frac{1}{6 \times 6}$ $\frac{65 + 4}{6 \times 6} = 16 \times 10^{-10}$	$\begin{array}{c} \textbf{D8a: Fin} \\ \textbf{base} \\ \textbf{65} \div \textbf{4} = \textbf{16r1} \\ \hline \textbf{Kink} \\ \textbf{40} \div \textbf{25} \\ \textbf{10} \div \textbf{6r1} = \textbf{16r1} \\ \textbf{9} \\ \textbf{ward that have base that } \end{array}$	65 + 4 = 16r1 1 6r1 4 6²5	$\begin{array}{c} 16r1 \\ 4 65 \\ -40 (4 \times 10) \\ 25 \\ -24 (4 \times 6) \\ \hline 1 \\ 65 + 4 = 16r1 \\ \hline \end{array}$		
¥4				D9: Mega Hunk! 136 + 4 = 34 Mega 120 + 16 120 + 16 1 + 4 30 + 4 = 34 • meretered that - and - a	D10: Short Division 136 + 4 = 34 34 4)1'3'6	D11: Chunking 34 4 136 $-120 (4 \times 30)$ 16 $-16 (4 \times 4)$ 0 136 + 4 = 34 Prove there have been	D11b: Chunking 34 4(136 - 40 (4 × 10) - 96 - 40 (4 × 10) - 56 - 40 (4 × 10) - 16 - 16 (4 × 2) 96 + 4 = 34 Presenteen team team team team team team team	
¥5	nt Mary's	Catholic I	Primary S	D9c: Mega Hunk! 394 ÷ 6 = 65r4 Mega 360 ÷ 34 4 ↓ ÷ 6 60 + 5r4 = 65r4 For sole	DIOC: Short Division 394 + 6 = 65r4 6 3 9 4 Samt Mary's Cathol use by purchasing school. E	Dilic: Chunking 65r4 6394 - 360 (6 × 60) 34 - 30 (6 × 5) 4 394 + 6 = 65r5 c Primary School VCP Bespoke Graphic Design by	Sasic Edition © Sense of Dave Godfrey - www.sense	Number 2016





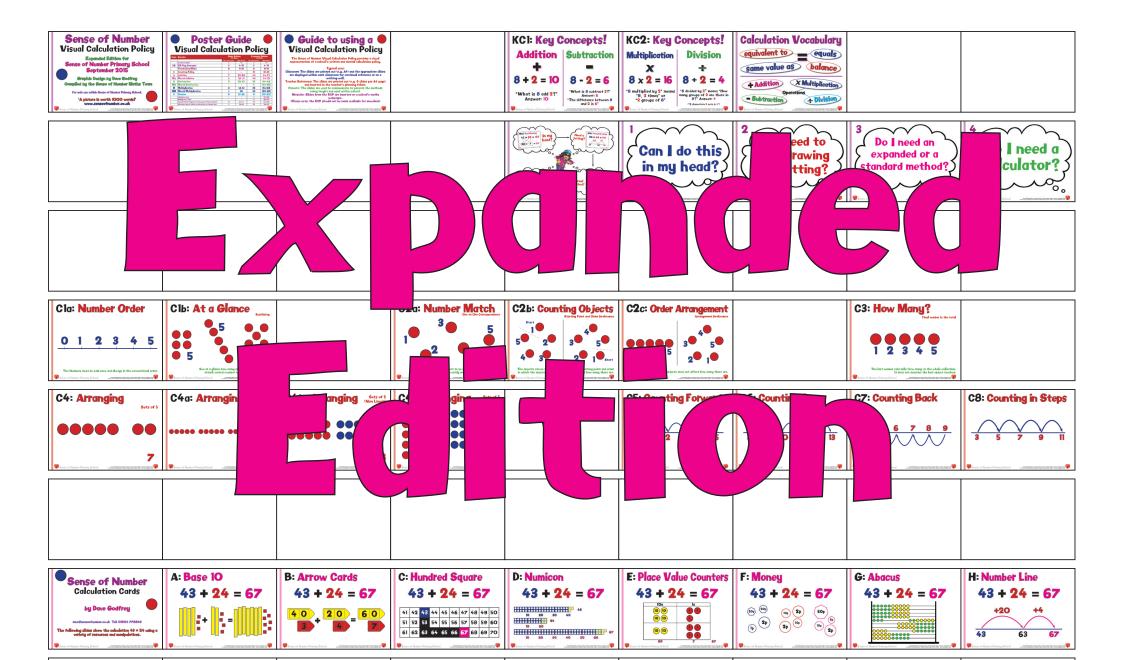






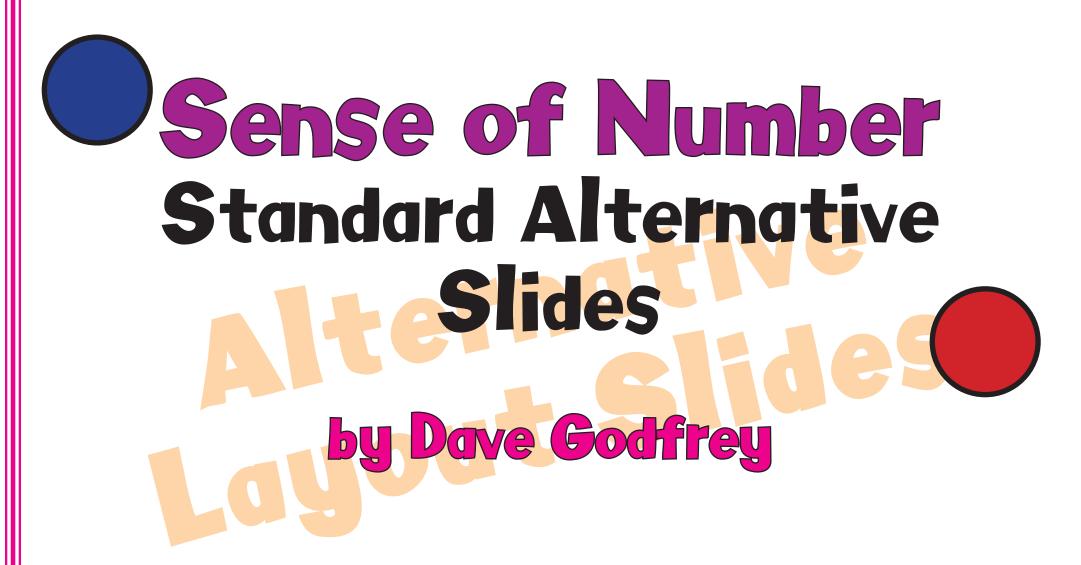






Saint Mary's Catholic Primary School





dave@senseofnumber.co.uk Tel: 01904 778848

The following slides the standard alternative slide configurations to the main set of slides.

Saint Mary's Catholic Primary School VCP Basic Edition © Sense of Number 2016 For sole use by purchasing school. Bespoke Graphic Design by Dave Godfrey - www.senseofnumber.co.uk

AHO(H



