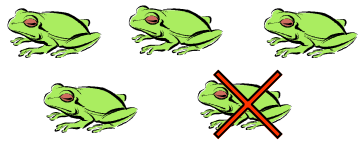
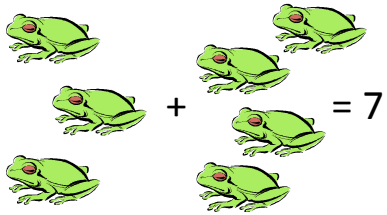
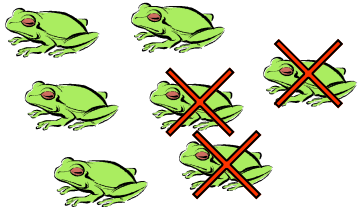
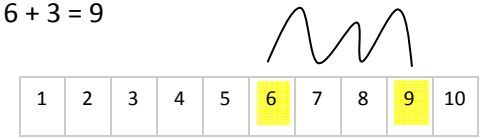
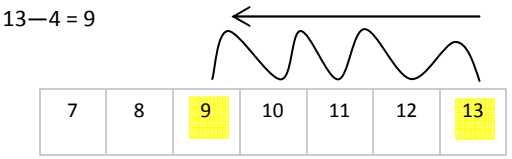
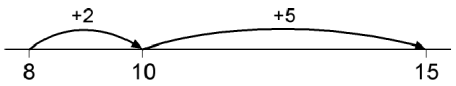
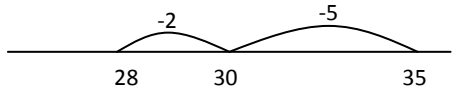
Calculation Policy: Addition & Subtraction

Spring 2014

Stage	Addition		Missing Number Problems	Subtraction	
	Addition	Examples		Subtraction	Examples
Stage 1 Counting	Counting Sets of Objects.	 =5		1 less than a set of objects	 Take one away and ask children how many are left.
Stage 2 Using Objects	Combining 2 sets of objects into 1 group and counting practically.	 = 7	5—□ = 4 □ + 4 = 6	Practically get a group of objects and take some away.	 7 - 3 = 4
Stage 3 Drawings	Drawing pictures/dots – informal jottings. Then counting how many altogether..	6 + 3 = 9 * * * * * * + * * *	9—□ = 6 □ + 4 = 7 □ + □ = 10	Jottings Draw a set of objects and then cross some out.	9 – 3 = 6 * * * * * * *
Stage 4 Number Lines	Counting on, on a number line with numbers on it.	6 + 3 = 9 	6 + □ = 11 + 1 □ —4 = 9 □ - □ = 10	Count back on a number line with numbers on.	13—4 = 9 
Stage 5 Blank Number Lines	Steps in addition can be recorded on a blank number line. The steps often bridge through a multiple of 10.	8 + 7 = 15 	18—□ = 12 6 + □ = 11 –2 □ + □ = 40	Beginning to use a blank number line to subtract in steps, including bridging a multiple of 10.	35—7 = 28 

NEW LEAKE PRIMARY SCHOOL
PARTNEY CHURCH OF ENGLAND PRIMARY SCHOOL
STICKNEY CHURCH OF ENGLAND PRIMARY SCHOOL
ST MARGARET'S CHURCH OF ENGLAND PRIMARY SCHOOL
COLLABORATIVE PARTNERSHIP

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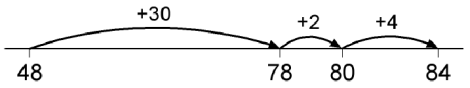
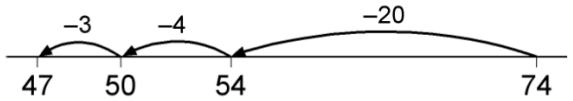
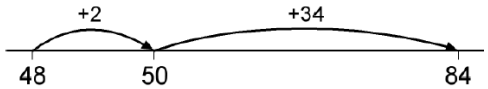
Stage 6 Partitioning	Partitioning and linking to a number line: 1) Partition the smaller number into tens and units 2) Add on the tens. 3) Add on the units.	48 + 36 = 84 48 + 36 = 84 30 6 	48—□ = 36 16 + □ = 31 – 9 □ + □ = 96	Using a number line 74 – 27 = 47 worked by counting back: Also working out the difference by counting on:	 Work out the difference between 48 and 84 = 36 
Stage 7 Column (Semi-compact) **Using Dienes or cubes to support**	Write the numbers in columns. Add the units first. **2 Digit + 2 digit**	47 + 76 = 13, 110, 123 Use Dienes or other apparatus to support understanding of the columns	48—□ = 36 16 + □ = 31 – 9 □ - □ = 37	(Exchange for 2 digit numbers) These show the 2 steps which lead to the shortened version of the column subtraction method. We always start with the ones column.	70 + 4 − 20 + 7 60 14 ~~70~~ + ~~4~~ − 20 + 7 = 40 + 7
Stage 8 Column Method	HTU + TU TU + TU + TU Using Columns	258 + 87 = 345, 11 33 + 46 + 89 = 178	98 = 46 + □ 36 + □ = 71 – 24 □ - 27 = 37 + 32 + 19 □ - 24 = 37—□	Subtract 2 digit number from a 2 digit number Then HTU-TU	6 14 ~~7~~ ~~4~~ − 2 7 4 7 12 6 ~~2~~ 16 ~~7~~ ~~3~~ ~~6~~ − 7 8 6 5 8
Stage 9 and 10 Column Method with larger numbers and decimals	THTU + HTU THTU +THTU Adding decimals (and understanding place value of decimals)	3736 + 2878 = 6614 42.75 + 385.6 = 428.35 1 1	798 = 346 + □ 236 + □ = 571 – 124 □ - 2.17 = 11.3 + 3.44 □ - 2.14 = 3.7—□	HTU—HTU THTU—HTU Subtraction using decimals	16 12 2 ~~6~~ ~~2~~ 16 ~~3~~ ~~7~~ ~~3~~ ~~6~~ - 8 7 8 2 9 5 8 16 8 ~~6~~ 13 ~~9~~ ~~7~~. ~~3~~ 6 - 8 7. 8 9. 5 6

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