Rise Park Primary and Nursery School Written Calculation Policy - 2014 National Curriculum

Addition Subtraction	Multiplication	Division
FS ELG: Add one more to numbers up to 20 ELG: Take one away from numbers up to 20 Puzzle Objective: Calculate 1 more without concrete support ELG: Take one away from numbers up to 20	ELG: Count repeated groups of the same size in 2, 5 and 10s Puzzle Objective: Count in 2,s 5s and 10s	ELG: To understand the concept of sharing and halving Puzzle Objective: Use the vocabulary <i>sharing</i>
Practical methods, pictures and jottings Practical methods, pictures and jottings	Practical methodsa and pictures	Practical methods
$ \begin{array}{c} \end{array} \\ \vdots $ \vdots \\ \vdots		
Understand addition as combining amounts Understand subtraction as 'taking away' and 'difference between' (by counting on) Add and subtract one-digit and two-digit numbers to 20,(9+9, 18-9) including zero. Understand subtract one-digit and two-digit numbers to 20,(9+9, 18-9) including zero	Solve practical problems that involve combining groups of 2, 5 or 10, calculating the answer using concrete objects, pictori- al representations and arrays with the support of the teacher.	Solve practical problems which involve sharing into equal groups. \div 2, \div 5, \div 10, calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.
Practical methods, pictures and jottings Practical methods, pictures and jottings	Practical Methods, pictures and jottings	Practical Methods and jottings
Numberline and hundred square Numberline and hundred square		Sharing
0 2 3 4 5 7 7 5 + 3 = 8 7 - 7 - 2 5 7 7	Arrays • • • 3 x 5 = 1 5 • • • • 5 x 3 = 1 5 • • • • 5 x 3 = 1 5	
Numberline and hundred squareNumberline and hundred square $3 + 3 = 8$ $7 - 2 = 5$	$ \begin{array}{c} \hline \hline \hline \hline \hline \hline $	Grouping



	Addition	Subtraction	Multiplication	Division
4	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Solve simple problems with up to 2 decimal places.	Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Solve simple problems with up to 2 decimal places.	Record, calculate and explain using formal written layout TU x U , HTU X U x2, x3, x4, x5, x6, x7, x8, x9, x10, x11, x12	Record, calculate and explain using formal written layout TU ÷ U
	$\begin{array}{c} \hline Compact columnar method \\ \hline 3 5 1 7 \\ + 3 9 6 \\ \hline 3 9 1 3 \\ \hline 3 1 1 1 \\ \hline 1 1$		Grid method X 3 0 2 0 7 1 1 4 1 2 0 8 2 8 1 3 0 8 Compact columnar method 3 2 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
5	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Decimals up to 3dp (23.74 + 48.525)	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Decimals up to 3dp	Multiply numbers up to 4 digits by a one- or two-digit num- ber using a formal written method, including long multiplica- tion for two-digit numbers ThHTU X TU	Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. ThHTU ÷ U
	Compact columnar method	Continue efficient use of numerlines	Grid method	Short division
	19.01 24.65 +,0.70 44.36 2481 + 1362 24843	$\frac{Compact columnar method}{3 1 0 5 6 7 1 0 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0$	$\frac{x 2 0 0 3 0 4}{10 2000 300 40} = 2340$ $\frac{10 2000 300 40}{6 1200 180 24} = \frac{1404}{3744}$ Long columnar method $2 3 4$ $x 1 6$ $1 4 0 4$ $2 3 4 0$ $3 7 4 4$	$\begin{array}{c} 0 & 6 & 6 & 3 \\ 8 & 5 & 3 & 0 & 4 \\ \hline 1 & 0 & 8 & 5 & r & 2 \\ 9 & 9 & 7 & 7 & 6 & 7 \end{array}$
6	Consolidate and extend work in Year 5	Consolidate and extend work in Year 5	Multiply numbers up to 4 digits by a 2-digit whole number using the formal written method of long multiplication. Multiply one-digit numbers with up to two decimal places by whole numbers	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division. Use written division methods in cases where the answer has up to two decimal places
	Compact columnar method	Continue efficient use of numberlines	Grid method	Long division
	23·361 9·080 59·770 15301 21·200 104579 104579	$ \begin{array}{c} \underline{\ Compact \ columnar \ method}} \\ \underline{\ } & \underline{\ \ } & \ $	$\begin{array}{r rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$