Place Value voca	bulary:										
		nds									
		ısa	35								
		roy	gan	ζ.				sint			
O When we move to		L p	Thous	grad	sp			od 7			
the left, we are making the digit 10x		rdre		ymer.	rdre	Z	Z	ima	Tenths		
larger e.g: 8 x 10 = 80.		Нш	Ten	The	Нш	Tens	Ones	Deci	Ten		
- When we move to		3	4	5	6	7	8		9		
the right, we are		The	JUSAI	rds	Hi	ındre	ds			ecima rts a	
making the digit 10x smaller. e.g:					7	K				rts og vhole	
5000 ÷ 10 = 500.											

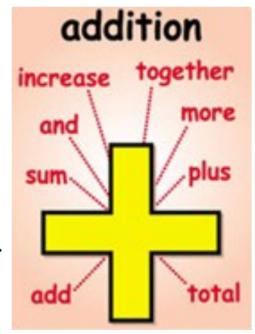
6		3	2		Roi	ındi ares	ng		
6	l	3	70		(Ne	ares	st 1(	))	
6	ł	3	6						ROUNDING
6	1	4	70						Underline the digit look next door.
									If it's 5 or greater
6	1	3	2			ındi			add one more.
6	7	0	0		(Ne	ares	st 1(	00)	11 it's less than 5
									leave it for sure.
6	l	6	2						is a zero, not more.
6	7	0	0						is a zero, not more.

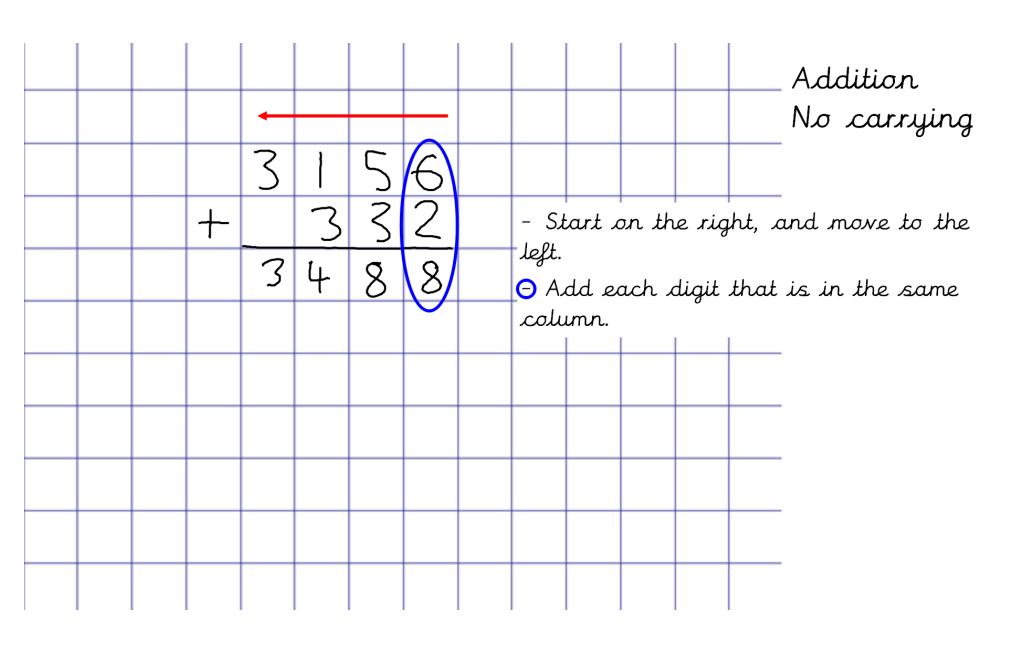
	6	1	3	2		Roi (Ne	ındi	rg	00	`	
	6	0	O	O		(Ne	ares	£ 10		)	
	6	6	3	2							ROUNDING
	7	0	0	0							nderline the digit look next door.
										O I	f it's 5 or greater add one more.
										O I	f it's less than 5
											eave it for sure. Everything after
											a zero, not more.

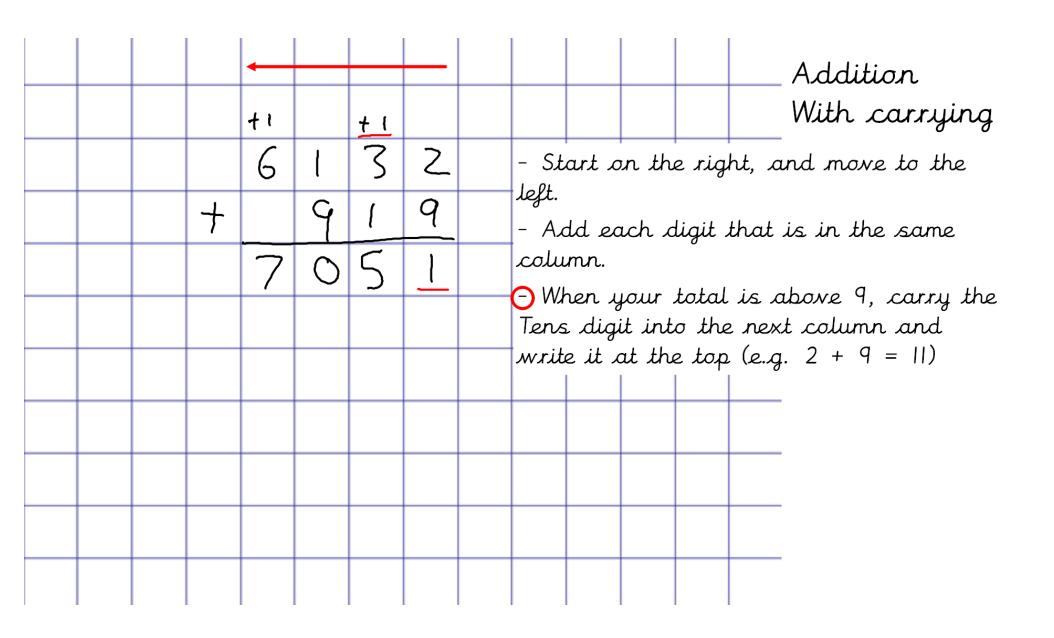
#### Addition vocabulary:

$$123 + 27 = 150$$

Pupils in Year 3 work with numbers up to Ten thousand.
Pupils in Year 4 work with numbers up to One Hundred thousand.



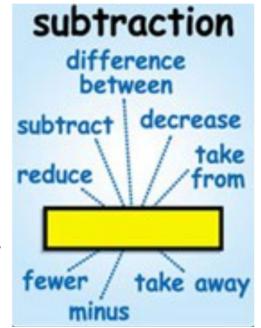


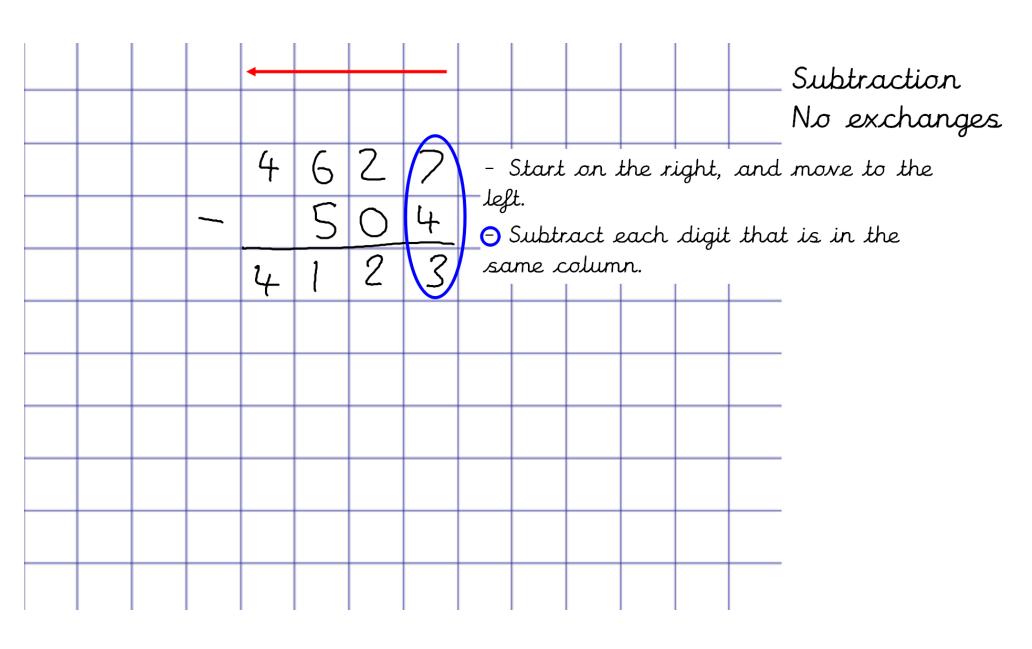


### Subtraction vocabulary:

$$123 - 27 = 96$$

Pupils in Year 3 work with numbers up to Ten thousand.
Pupils in Year 4 work with numbers up to One Hundred
thousand.





		+ 43	'7 8	OX)	<u>1</u> 45	Subtraction With exchanges  - Start on the right, and move to the left.  - Subtract each digit that is in the same column.
		3	9	0	9	<ul> <li>If you cannot subtract (for example, 4-5),</li> <li>move to the next column and exchange by</li> </ul>
						subtracting 1.
						Bring this into your calculation (14-5) and subtract.

		-				Subtraction
		4	9	9		With exchanges
		<b>7</b>	10	ICX	17	across 0
			X	$\mathcal{D}$		(column method)
	_		١	2	8	- Start on the right, and move to the left.
		4	8	7	9	<ul> <li>Subtract each digit that is in the same column.</li> </ul>
						☐ If you cannot subtract (for example,
						4-5), move to the next column and
						exchange by subtracting 1. If there is a 0,
						move to the next column.
						Bring this into your next column, and if
						needed exchange again until you are at
						your original column with 0.

	-				Subtraction With exchanges
	5	0	0	7	across 0 (linked facts)
Subtract 8 —		١	2	8	<ul> <li>Sometimes it may be easier to use linked</li> <li>facts to help with subtraction. Here, we</li> </ul>
from both numbers to	4	8	7	9	can subtract 8 from both numbers to make
make it simpler.					the calculation easier.  - Start on the right, and move to the left.
Now, we don't have	4	9	9	19	<ul> <li>Subtract each digit that is in the same</li> <li>column.</li> </ul>
any		1	2	0	
exchanges.	4	8	7	9	

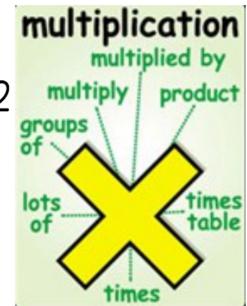
# Multiplication vocabulary:

Multiplicand x Multiplier = Product Factor = Multiple 5 x 2 = 10

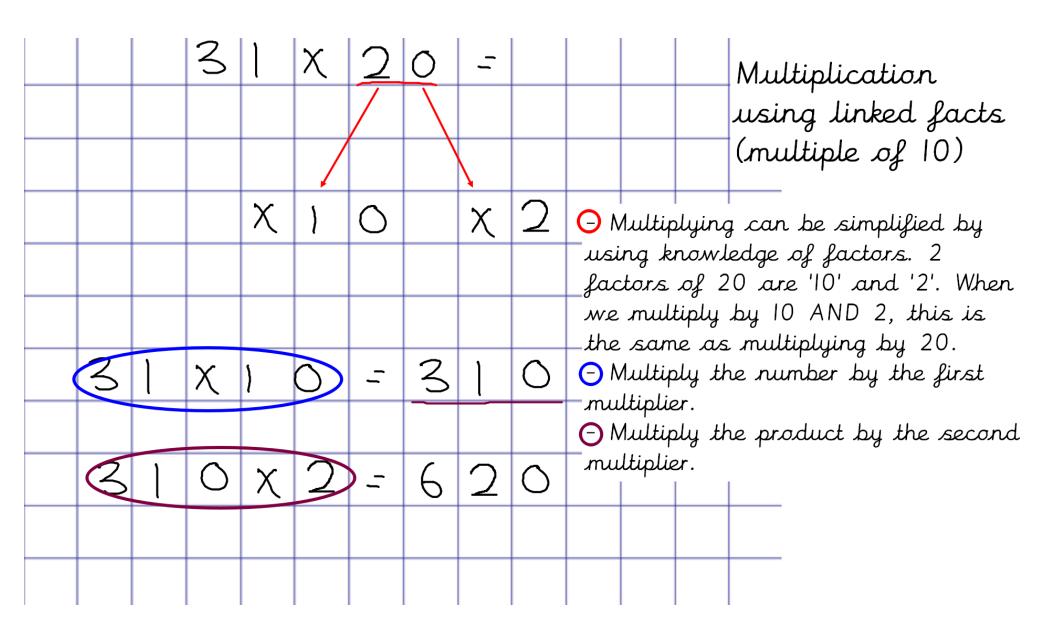
56  $\times$  2 = 112

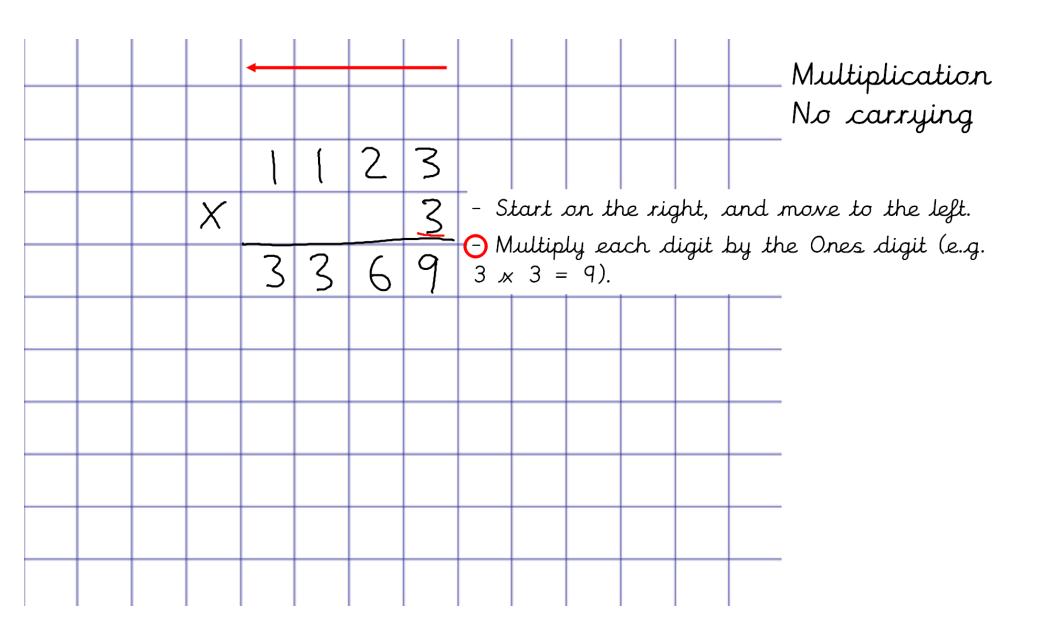
By the end of the year, pupils in Year 3 should know their 0, 1, 2, 5, 10, 4, 8, 3, 6 and 12 times tables facts (multiplication and division).

By the end of the year, pupils in Year 4 should know all of their times tables facts (multiplication and division), up to  $12 \times 12$ .



		3	3	1	χ	1	0			Multiplication by 10, 100 or 1,000
		_	3	1	Χ	1	Ó	0		O Count the number of 0's in 10, 100
	(کر)	1	O	0						or 1,000.  O Move each digit the same number of places to the left.
- A	<b>^</b>	$\stackrel{\wedge}{\sim}$	3		χ	1	0	0	Ò	O Where required, put placeholder 0's in the columns.
3	l	<u>U</u>	0	Q						





		+1	<u>+1</u>			Multipication With carrying
			3	4	2	
	Χ				4	- Start on the right, and move to the left.
		5	3	6	8	$\bigcirc$ Multiply each digit by the Ones digit (e.g. 2 x 4 = 8).
						Top a digit to the route polynomial (a.m. / )
						Tens digit to the next column (e.g. 4 x 4 = 16).
						The number that has been carried gets
						added after your multiplication (e.g. $4 \times 3 = 12$ . $12 + 1 = 13$ ).

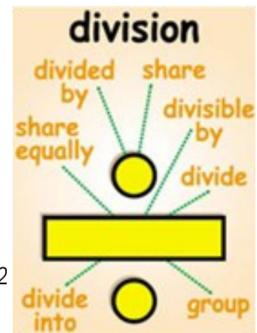
#### Division vocabulary:

Dividend 
$$\div$$
 Divisor = Quotient  
10  $\div$  2 = 5

$$56 \div 2 = 28$$

By the end of the year, pupils in Year 3 should know their 0, 1, 2, 5, 10, 4, 8, 3, 6 and 12 times tables facts (multiplication and division).

By the end of the year, pupils in Year 4 should know all of their times tables facts (multiplication and division), up to  $12 \times 12$ .

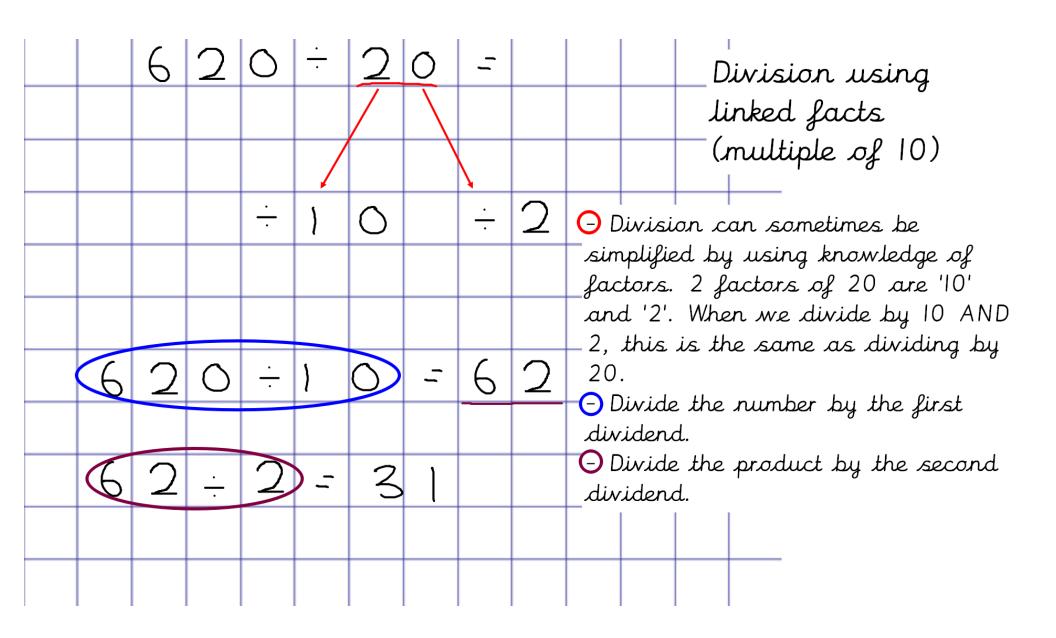


3	3	0	÷	1	0	11						Dividing by 10, 100 or 1,000
3	10	0	  1	1	Ŏ	0			1	00 x MO	or 1,1 ve ed	ach digit the same
3	100	• 0	- · ·	 	Ō	٥	0	-	). 	The c same Who	decim plau ere ri	f places to the right. Lal point stays in the Se.  equired, put a decimal or your Ones column.
3	1	1	- 51	1	Ŏ	0	11					

	3					<b>—</b>							Short Division
	6												No exchanges
	9												
1	2			3	0				•				to assist you. . move to the right.
J	5		3	9	0	`	C				Ū		the divisor (e.g.
J	8							9 ÷ 1	3 = I	3 ) I	I	I	
2	J												
2	4												
2	7												
3	0												
		: Bupil: vision											

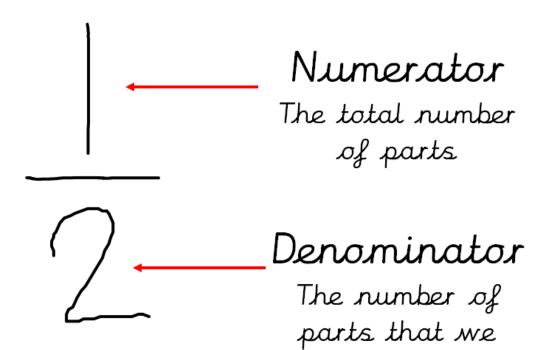
	3					<b>→</b>							Short Division
	6												With exchanges
	9												
1	2			2	8			,	9				assist you.
1	5		3	8	24					Ū			ove to the right. divisor (e.g.
1	8						8 ÷	- 3 =	= 3 )	)	J		·
2	J							•					exactly, anything to the next column
2	4								0 0			Ū	remainder)
2	7												
3	0												
		: Rupils vision											

	4						<b></b>	Short Division
	8							With exchanges
1	2							and remainders
1	6			0	3	rl		
2	0		4	Y	١ ٤			O Write your times table to assist you.
2	4							- Start on the left, and move to the right Divide each digit by the divisor (e.g.
2	8							$1 \div 4 = 0$
3	2							If you cannot divide it exactly, anything remaining gets exchanged to the next column
3	6							(e.g. $1 \div 4 = 0$ with $1$ remainder)
4	O							☐ If a remainder is left at the end, write this with a 'r' and then the number.
		: Rupils vision						



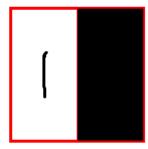
	3										Long Division by
	6			0	9						digits   With exchanges
	9		3	2	7						O Write your times table to
1	2		レ	2	7						assist you.  - Move from left to right.
1	5				0					<b>→</b>	Follow the same method as
1	8						2	7	1		short division.  (i) If the number can be
2	1					3 (	8	2			divided, write the multiple underneath and subtract it.
2	4					<u>'</u>	6	1			Bring your exchange into
2	7						2	2			the next column and continue.
3	0					<u></u>	2	1			- Any remainders can be written at the end.
Please note: Pupils can use EITHER short  OR long division to solve questions.											

# Fraction vocabulary:



have.

"I have I part. My numerator is I."



"In total, there are 2 parts. The denominator is 2."

