

# Milestone 3 Multiplication and Division

## Key Vocabulary

Array Repeated addition Grouping Multiplication Multiple of Multiplied by Lots of Groups of	Divided by Share equally Divided into Equal groups of Repeated subtraction	Estimate Inverse Approximate Inverse Operation Calculate Statements
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400	400	400	400
1600			

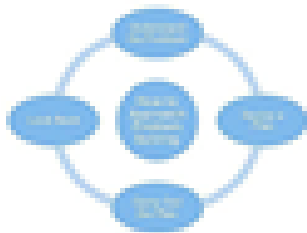


Short Division

$$\begin{array}{r} 440 \\ 12 \overline{) 5284} \end{array}$$

Long Division

$$\begin{array}{r} 31 \\ 14 \overline{) 443} \\ \underline{42} \phantom{0} \\ 23 \\ \underline{14} \\ 9 \end{array}$$



X	8	3	5	9	2	10	7	4	1	6
2	6				20					12
7	21	35			14				7	
4	32	20					28	16		
6	18	54							6	
9					18	90	63			
1	8		9		10	7				6
5	40		45	10				20		
8					16				8	48
10	80	30			20			40	10	
3			15	27	30				3	18

Using POLYA solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. Including scaling by simple fractions and problems involving simple rates

Use knowledge of the order of operations to carry out calculations involving the four operations.

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division

Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division

Perform mental calculations, including with mixed operations and large numbers

Estimate and use inverse operations and rounding to check answers to a calculation.

Identify common factors, common multiples and prime numbers.

Establish whether any number up to 100 is prime and recall prime numbers up to 19.

### RETRIEVAL GRID

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).

Solve problems using POLYA involving multiplication and division including using knowledge of factors and multiples, squares and cubes