

Multiplication

Continue to use the grid method to aid place value and mental arithmetic.

M5a: Grid Method
Short Multiplication

$$43 \times 6 = 258$$

x	40	3
6	240	18

$$240 + 18 = 258$$

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Develop column method for speed, and to make the transition to long multiplication easier.

(M6: Expanded Column)
Additional a

$$\begin{array}{r} \begin{array}{c} 100 \quad 10 \quad 1 \\ 43 \\ \times 6 \\ \hline 18 \quad (6 \times 3) \\ 240 \quad (6 \times 40) \\ \hline 258 \end{array} \end{array}$$

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(M7: Column Multiplication)
Additional a

$$\begin{array}{r} \begin{array}{c} 100 \quad 10 \quad 1 \\ 43 \\ \times 6 \\ \hline 258 \\ 1 \end{array} \end{array}$$

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Division

Chunking and short division

D9: Mega Hunk!

$$136 \div 4 = 34$$

Mega Hunk! Chunk

$$\begin{array}{r} 120 + 16 \\ \downarrow \quad \downarrow \\ 30 + 4 = 34 \end{array} \div 4$$

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Use facts to chunk

D11: Chunking

$$\begin{array}{r} 34 \\ 4 \overline{)136} \\ -120 \quad (4 \times 30) \\ \hline 16 \\ -16 \quad (4 \times 4) \\ \hline 0 \end{array} \quad 136 \div 4 = 34$$

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D10: Short Division

$$136 \div 4 = 34$$
$$\begin{array}{r} 34 \\ 4 \overline{)136} \end{array}$$

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YEAR 4 WRITTEN METHODS IN MATHS

A guide for Parents/Carers



Year 4 expectations

Count backwards through zero to include negative numbers.

- Compare and order numbers beyond 1,000.
- Compare and order numbers with up to 2 decimal places.

- Read Roman numerals to 100.
- Find 1,000 more/less than a given number.
- Count in multiples of 6, 7, 9, 25 and 1000.
- Recall and use multiplication and division facts all tables to 12x12.
- Recognise Place Value of any 4-digit number.
- Round any number to the nearest 10, 100 or 1,000.

- Round decimals with 1 decimal place to nearest whole number.

- Add and subtract:
 - Numbers with up to 4-digits using written columnar method

- Multiply:

- 2-digit by 1-digit
- 3-digit by 1-digit

- Count up/down in hundredths.
- Recognise and write equivalent fractions
- Add and subtract fractions with same denominator.
- Read, write and convert time between analogue and digital 12 and 24 hour clocks.

Addition

'Carry' tens and hundred

A7: Column Addition

	100	10	1
	6	8	7
+	2	4	8
	9	3	5
	1	1	

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Addition involving 4 digits

A7d: Column Addition

	4	8	7	3
+	3	7	6	2
	8	6	3	5
	1	1		

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Subtraction

Expanded column

S10x: Expanded Column
Subtraction (100, 10, 1s)

	7	8	4	-	3	5	1	=	4	3	3
	7	0	0		8	0			4		
-	3	0	0		5	0			1		
	4	0	0		3	0			3		

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Subtraction using decomposition

S11x: Column Subtraction

	100	10	1
	5	9	1
	6	0	5
-	3	2	8
	3	6	7

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