

# Year 5 Written Methods of Calculation

ADDITION	SUBTRACTION	MULTIPLICATION	DIVISION
<p>Written method used in addition calculations in Year 5 are outlined below.</p> <p><u>Expanded Partitioning Method</u></p> $879 + 345 = 1224$ $\begin{array}{r} 800 + 70 + 9 \\ 300 + 40 + 5 \\ \hline 1100 + 110 + 14 \end{array}$ <p><u>Standard Method of Column Addition</u></p> $\begin{array}{r} 3587 \\ + 675 \\ \hline 4262 \\ \hline 111 \end{array}$ <p>This would be extended to numbers with any number of digits. It would also be used to add decimal numbers with 1, 2 or 3 decimal places.</p> $\begin{array}{r} 13.86 \\ + 9.481 \\ \hline 23.341 \\ \hline 111 \end{array}$	<p>Written method used in subtraction calculations in Year 5 are outlined below.</p> <p><u>Expanded Partitioning Method</u></p> $643 - 298 = 345$ $\begin{array}{r} 500 \quad 130 \\ 600 + 40 + 13 \\ \hline 200 + 90 + 8 \\ \hline 300 + 40 + 5 \end{array}$ <p><u>Standard Method of Subtraction (decomposition)</u></p> $\begin{array}{r} 5 \quad 13 \quad 1 \\ 6467 \\ - 2684 \\ \hline 3783 \end{array} \quad \begin{array}{r} 3 \quad 9 \quad 1 \\ 4009 \\ - 2764 \\ \hline 1245 \end{array}$ <p>This would be extended to numbers with any number of digits. It would also be used to subtract decimal numbers with 1, 2 or 3 decimal places.</p> $\begin{array}{r} 0 \quad 7 \quad 15 \\ 13.860 \\ - 9.481 \\ \hline 4.379 \end{array}$ <p>For numbers which need to be subtracted but are close together, children would be encouraged to count on in their heads, maybe with jottings.</p>	<p>Written method used in multiplication calculations in Year 5 are outlined below.</p> <p><u>Expanded Partitioning method</u></p> $\begin{array}{r} 87 \\ \times 6 \\ \hline 42 \quad (7 \times 6) \\ 480 \quad (80 \times 6) \\ \hline 522 \\ \hline 1 \end{array}$ <p><u>Standard Short Multiplication Method</u></p> $\begin{array}{r} 87 \\ \times 6 \\ \hline 522 \\ \hline 4 \end{array}$	<p>Written method used in division calculations in Year 5 are outlined below.</p> <p>Remind children about using their times tables and about dividing by 10.</p> <p><u>Standard Method of Short Division (Bus Stop)</u></p> $5 \overline{) 22337} \begin{array}{l} 4 \quad 7 \quad r \quad 2 \end{array}$ <p>Usually used when the divisor is a single digit number.</p>

# Year 5 Maths Evening

*Thank you for joining us tonight. We hope that by the end of the evening you will feel more able to support your child in their maths work.*

## How do I help my child with maths?

Do more of what they have been doing, rather than racing ahead – we time the introduction of methods carefully.

If they are stuck on a homework, talk through it – resist the temptation to show them how it is done.

Encourage them to practice maths!

Tables practice in the car

Add up prices in a shop (mass, capacity)

Play on websites



## Maths Websites

The following websites are really useful for improving mental maths skills...

**Maths Magician** [www.tiny.cc/lgjs1](http://www.tiny.cc/lgjs1)

Choose operation type and level – gives an exciting certificate at the end!

**Powerlines** [www.tiny.cc/lgjs3](http://www.tiny.cc/lgjs3)

Mathematical reasoning and addition skills.

**Speed addition** [www.tiny.cc/lgjs4](http://www.tiny.cc/lgjs4)

Excellent mental addition.

**Speed Subtraction** [www.tiny.cc/lgjs5](http://www.tiny.cc/lgjs5)

Just like speed addition, but with subtraction.

**Crazy Taxi** [www.tiny.cc/lgjs6](http://www.tiny.cc/lgjs6)

A reckless but fun game for practising multiples!

**Maths Lines** [www.tiny.cc/lgjs7](http://www.tiny.cc/lgjs7)

A game practising multiplication and division facts.

**Woodlands** [www.tiny.cc/lgjs8](http://www.tiny.cc/lgjs8)

A primary school site with lots of useful games.

**Hit the Button** [www.tiny.cc/lgjs9](http://www.tiny.cc/lgjs9)

An excellent site for practising multiples.

**Who wants to be a mathionaire?** [www.tiny.cc/lgjs10](http://www.tiny.cc/lgjs10)

Mental maths version of Who wants to be a millionaire?

