Calculation methods in Year 5/6.

Addition

Keep decimals aligned

£6.50
+ £19.63
£84.13

Subtraction

$$\begin{array}{r} {}^{1}\,{}^{2}\,{}^{3}\,{}^{1} \\ 5\,2\,\cancel{3}\,\cancel{4} \\ -\;\;1\,1\,8\,7 \\ \hline 5\,1\,1\,5\,7 \end{array}$$

Multiplication

	20	6	
10	200	60	= 260
3	60	18	= 78

260 + 78 = 338

$$\begin{array}{r} 24 \\ \times\;16 \\ \hline 144 \\ +\;240 \\ \hline 384 \end{array}$$

Zero as the place holder for the ones column

$$\begin{array}{r} 502 \\ \times\;336 \\ \hline 3012 \\ 15060 \\ +\;150600 \\ \hline 168672 \end{array}$$

Zero as the place holder for the ones column

Two zeroes as the place holder for the ones and ten column

Short and long division

79 ÷ 5 = 15.8

$$5\overline{)79.40} \quad 15.8$$

$$5\overline{)79} \quad 15\ r4 \qquad 15\tfrac{4}{5}$$

$$15\overline{)432} \quad 28\ r12$$

$$-30 \qquad -132 \qquad -120 \qquad 12$$

$$\frac{12}{15} = \frac{4}{5} = 0.8$$

SUPPORT FOR PARENTS about how maths is taught in schools can be found at https://www.oxfordowl.co.uk/for-home/maths-site/expert-help--2/maths-in-school

This website has useful booklets on calculation methods as well as helpful videos.

http://www.amathsdictionaryforkids.com/ explains important maths vocabulary in a simple way for children and adults!

Maths in Year 5.

Information for Parents.

Highwoods Community Primary

This booklet is intended as a guide for parents to the mathematics curriculum taught in year 5. It outlines the key expectations for the year group as well as the important mental number facts that children need to have grasped by the end of the year.

Mental Skills.

Children need to be able calculate these quickly and fluently.

- Multiply and divide whole numbers and decimals by 10, 100 & 1000
- Add and subtract two 2 digit numbers.
- Add and subtract /double and halve decimal numbers to 1 decimal place.
- Add and subtract a 4 digit numbers just less than a multiple of 1000 eg 5001-1997

A continued focus in year 5 is quick recall of times tables facts and their related division facts and applying this knowledge

- Have instant recall of **all times tables** up to 12x12
- Quickly find factor pairs for numbers up to 100.
- Quickly recall prime numbers
- Find fractions of whole numbers or quantities eg 2/3 of 27, 4/5 of 70kg
- Find 10%, 25%, 50%, 75% of whole numbers or quantities.

These skills should be practised regularly. Choose a few facts/ skills to practise each week. They can be practised on the walk to school, while driving in the car or through maths games websites such as http://www.maths-games.org

Maths Curriculum.

In Year 5 children will also learn to:

- Read, write, order and compare numbers to at least 1 000 000.
- Count forwards and backwards with positive and negative whole numbers, including through zero.
- Round numbers to nearest 10,000 or 100,000.
- Read Roman numerals to 1000.

- Add and subtract whole numbers with more than 4 digits.
- Multiply 4 digit numbers by a one- or two-digit number
- Divide numbers up to 4 digits by a one-digit number using the short written method.
- Explore prime numbers, factors, prime factors, square numbers and cube numbers.
- Work with numbers up to 3 decimal places.
- Write decimal numbers as fractions eg 25/100 = 0.25
- Recognise mixed numbers and improper fractions.
- Multiply proper fractions and mixed numbers by whole numbers.
- Recognise % and the most common fraction equivalents.

- Calculate the area of squares and rectangles.
- Estimate volume .
- Measure and calculate the perimeter of composite shapes.
- Understand and use equivalences between metric units and common imperial units.
- Draw angles and measure them in degrees.
- Identify regular and irregular polygons.
- Identify, describe and represent the position of a shape following a reflection or translation.
- Complete, read and interpret information in tables, including timetables,
- Solve comparison, sum and difference problems using information presented in a line graph.