Years 5 and 6

## Introduction

This guide has been designed to explain how your child is taught to solve mathematical problems in school and ways you can support them at home.

These skills are taught alongside many other ideas including mental strategies, counting, singing, group activities, practical methods and maths in the outdoors.

## Why do you need to know?

When looking through this guide, you may find that the children are taught to solve mathematical problems in ways that look different from the ways you may remember! Often children encounter frustration and difficulty when receiving mixed methods from home and school, and for this reason, we have produced a guide to help you fully support your child in a way that will match the methods their teachers are using in school.

## What should you do?

Before any mental or written calculation is undertaken, children are encouraged to discuss which method of solving the problem would be best. And proceed through a number of steps whenever possible. In school the children will be asked to Read the question, identify the maths involved, estimate an answer, calculate and finally check work is correct.

At home...


## Addition

Children are encouraged to use a wide variety of mental calculation strategies and also to select when they think a written strategy, as is detailed here, is appropriate.


After Easter in Year 5, and throughout Year 6, children will be using the following methods.

Mike has one hundred and twenty pounds and sixty pence saved. For his birthday, he receives a further

As before, begin the addition process from the right, ensuring your child knows that when they add the 9 and 2, they are in fact adding ninety and twenty. ninety-five pounds thirty. How much money does he have now?


In solving problems such as the one above, it is important for the children to have a grasp of estimation in order that they might recognise any mistakes that they may make.

The answer to the above problems should be in the region of 230 because $120+100$ is 230. In this way, children should be encouraged to estimate and think about whether or not their answer is sensible!

## Subtraction

Children are encouraged to use a variety of mental calculation strategies and also to select when they think a written strategy, as is detailed here, is appropriate.


In addition to the number line the children in Year 5 will work towards using the standard written method of subtraction that you will remember


The final stage in vertical subtraction is intended to be reached by the end of year 5 and used tghroughout Year 6.

563-278


2
8


## Multiplication

The children will of course use their knowledge of times tables to help with division and while you will have used standard method or long multiplication the school has agreed in partnership with other local Primary Schools and Honley High School, to use the grid method for multiplication.


## Division

Division is a repeated subtraction problem. Seeing how many lots can be taken from a given amount. You may remember long-division, but currently the school uses chunking to solve these problems.

A school parents evening had 256 parents visit over 7 nights. How many parents visited each night?


Times tables are a real help when solving division with chunking. Without a good knowledge of them, it can be a barrier to success and make the method slow and difficult.

|  |  | 3 |  | r 4 |
| :---: | :---: | :---: | :---: | :---: |
| 7256 |  |  |  |  |
| - | 2 | 1 | 0 | (30×7) |
| 46 |  |  |  |  |
|  |  | 4 | 2 | $(6 \times 7)$ |

In the example here, you will notice that the method subtracts first 30 lots of 7 .

Children should understand by Year 5 and 6 that if $3 \times 7$ is 21 , then $30 \times 7$ is 210 . Without knowledge of these related times table facts, there can be issues when solving such problems quickly and efficiently.

