## Addition, Subtraction, Multiplication and Division: Players, Are You Ready?

Aim: Perform mental calculations, including with mixed operations and large numbers. I can perform mental calculations with increasingly large numbers using all four operations.	Success Criteria: I can partition into thousands, hundreds, tens, ones and tenths, adding the most significant digit first. I can add or subtract the nearest multiple of ten or 100, then adjust. I can identify near doubles. I can multiply or divide by four or eight by repeated doubling or halving. I can form an equivalent calculation.	Resources: Lesson Pack Coloured counters
	<b>Key/New Words:</b> Multiple, add, plus, subtract, minus, take away, sum, total, nearest, partition, partitioning, repeated steps, mental, strategy, adjust, nearest multiple, doubling, halving, equivalent calculation, multiply, multiplication, lots of, groups of, divide, division.	Preparation: Target Decimal Board - 1 per pair Mental Calculations Four-in-a-Row Game - I per pair Four-in-a-Row Record Sheet - 1 per child Extra Challenge Activity Sheet - as required Strategy Poster Pack - as required

Prior Learning: It will be helpful if children have a secure understanding of place value, multiplication facts and corresponding number facts.

Learning Se	quence		
	<b>How Much?</b> In pairs, children have a <b>Target Decimal Board</b> . Ask children to add or subtract at least two numbers on their board to find; the highest whole number, the smallest whole number, the number closest to 100 and the smallest number with three decimal places. Then one child in each pair selects a number from the board. This will be the target number. In pairs, children create calculations (including numbers with decimals) to make the target number. Repeat.		
	<b>Practice Round:</b> Revise mental strategies by talking through the information on the Lesson Presentation. Repeat with additional examples if necessary.		
	<b>Players, Are You Ready?</b> Using the Lesson Presentation, the children look at each of the questions and decide which method is the most efficient to calculate the answer. Can the children explain how they completed each calculation? Which mental calculation method did they choose? Did anybody use a different mental calculation method?		
	Four-in-a-Row: In pairs, the children take it in turns to select and complete a calculation on the Mental Calculations have been completed, the child can place their coloured counter over the calculation. The first child to get four in a row wins. Remind children to check their answers once the calculations have been completed. Support can be given through displaying Strategy Poster Pack around the classroom and/or on tables.   Image: the children take it in turns to select and complete a calculation on the Mental Calculations four-in-a-Row Game by selecting and using an appropriate mental calculation method to complete the whole number and simple decimal questions. In pairs, the children take it in turns to select and complete a calculation method to complete the whole number and simple decimal questions. In pairs, the children take it in turns to select and complete a calculation on the Mental Calculations four-in-a-Row Game by selecting and using an appropriate mental calculation method to complete the whole number and simple decimal questions. In pairs, the children take it in turns to select and complete the whole number and simple decimal questions. In pairs, the children take it in turns to select and complete the whole number and simple decimal questions. In pairs, the children take it in turns to select and complete the whole number and simple decimal questions. In pairs, the children take it in turns to select and complete the whole number and simple decimal questions. In pairs, the children take it in turns to select and complete the whole number and simple decimal questions. In pairs, the children take it in turns to select and complete the whole number and decimal questions. In pairs, the children take it in turns to select and complete the two-step calculation method to complete the whole number and dec		
Vinde Class	<b>Calculation Countdown:</b> The children write their own questions based on the objective of the lesson. These questions can then be selected randomly and used with the rest of the class. Can the children work out the answers to the questions using a mental method?		



## **Master**it

Practiseit: Let your children practise their mental skills using this fabulous Addition Pyramids Activity Sheet.

**Create**it: Children create their own game to practise mental calculations.

