

Multiplication and Division: Parrots Can't Read

Aim: Multiply and divide numbers mentally drawing upon known facts. I can divide mentally by partitioning, calculating and recombining.	Success Criteria: I can partition whole numbers up to four digits. I can partition numbers containing decimals. I can divide numbers mentally. I can recombine numbers to complete my calculation.	Resources: Lesson Pack
	Key/New Words: Divide, partitioning, recombining, calculating.	Preparation: Differentiated Parrots Can't Read Activity Sheets - one per child

Prior Learning: It will be helpful if the children can partition and recombine whole numbers and numbers with decimals.

Learning Sequence

	Perfect Partitioning: The children are shown numbers and must find different ways to partition them. Ask children to self-differentiate by choosing the bronze, silver or gold level numbers.	
	Parrots Can't Read: Use the Lesson Presentation to remind children of PCR (partition, calculate and recombine) as a strategy for division calculations.	
	Decimals: Use the explanation on the Lesson Presentation to model how to use PCR to divide numbers with decimals mentally.	
	Pocket Money: Introduce the problem on the Lesson Presentation . Ask the children to share an amount of money between three children. Emphasise the importance of looking for multiples of three when partitioning, to make the calculation easier. Use the examples on the Lesson Presentation to practise with some other pocket money examples. Encourage the children to share their strategies.	
	Share the Profit: The children work through the three examples on the Lesson Presentation . Direct pairs in your * group to focus on the first one. Discuss how to partition into amounts that are easily divisible by three.	
 Children use PCR to divide mentally with numbers up to four digits that are easily partitioned. Children use PCR to divide mentally with numbers up to three digits with tenths that are easily partitioned. Children use PCR to divide mentally with numbers up to 3-digits with tenths and hundredths (money). Numbers must be partitioned by looking for multiples of the divisor.		
	P C R: The children create their own mnemonics to remember PCR.	

Masterit

Playit: Children play in pairs. Roll a dice and multiply the current year by that number (e.g. 2016 × 5). Use PCR or another appropriate mental method. The first child to get the correct answer scores a point. The winner has the most points at the end of the playing time.