

Multiplication and Division: The Distributive Law

Aim: Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. I can use my understanding of the distributive law to help me to solve problems.	Success Criteria: I can explain what the distributive law is. I can solve equations with brackets in them by writing an equivalent calculation.	Resources: Lesson Pack
	Key/New Words: Distributive law, brackets, array, equivalent, equation.	Preparation: Differentiated Distributive Dilemma Activity Sheets – one per child Distributive Law Cards – cut up, one set per child in the * group

Prior Learning: It will be helpful if the children know the multiplication tables up to 12×12 , can use the written methods of multiplication and division and understand the meaning of the equals sign.

Learning Sequence

	Arrays: Children write as many calculations as they can to describe the arrays on the Lesson Presentation .	
	The Distributive Law: Use the example on the Lesson Presentation to explain the distributive law.	
	Make It Balance: Children check the calculations on the Lesson Presentation to ensure that the see-saws balance.	
	Banish the Brackets: Children write equivalent calculations without brackets to make the equations correct.	
	Subtraction: Children investigate whether it works if we use subtraction in the brackets.	
<p>Distributive Dilemma: Children complete differentiated Distributive Dilemma Activity Sheets, using their understanding of the distributive law to help them to solve multiplication and division problems.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Children sort the Distributive Law Cards to match the calculation (with brackets) with the pictorial representation, the equivalent calculation (without brackets) and the answer.</p> </div> <div style="text-align: center;"> <p>Children solve multiplication and division problems by writing the equivalent calculation (without brackets) and finding the answers.</p> </div> <div style="text-align: center;"> <p>Children solve multiplication and division problems by writing the equivalent calculation (without brackets) and finding the answers.</p> </div> </div>		
	Algebra: Solve problems where letters replace numbers in the equations.	

Masterit

Makeit: Children play this super **Algebra Dominoes** game, then make their own dominoes game using equations with brackets.
Explainit: Children make a poster to explain how to use the distributive law to solve multiplication problems.