

Fact family

multiplication (x) and division (÷)

Fact families are groups of related facts. They involve two related operations: **addition** and **subtraction**; and **multiplication** and **division**. They help students understand the relationship between these operations – that one is the opposite of the other.

This then develops their number sense as they can use subtraction to check an addition problem and division to check a multiplication problem.

Fact family examples	addition and subtraction:	multiplication and division:	
	3 + 7 = 10	3 x 4 = 12	
	7 + 3 = 10	4 x 3 = 12	
	10 – 3 = 7	12 ÷ 3 = 4	
	10 – 7 = 3	12 ÷ 4 = 3	

The array helps children learn multiplication and division fact families.

This array has 12 small rectangles in it. It shows:

3 rows of 4 (3 x 4) 4 columns of 3 (4 x 3)		(rows are horizontal) (columns are vertical)	

That 12 can be divided into 3 groups with 4 in each group That 12 can be divided into 4 groups with 3 in each group

 $(12 \div 3)$ – horizontally $(12 \div 4)$ – vertically

