

National Curriculum Statement	All students														
	Fluency	Reasoning	Problem Solving												
Find pairs of numbers that satisfy an equation with two unknowns.	<ul style="list-style-type: none">X and Y are whole numbers. X is a one digit number. Y is a two digit number. <p>$X + Y = 25.$</p> <p>Find all the possible pairs of numbers that satisfy the equation.</p> <ul style="list-style-type: none">a and b are variables: <p>$a + b = 6$</p> <p>Find 5 different possibilities for a and b.</p> <table><tr><th>a</th><th>b</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table> <ul style="list-style-type: none">Find 3 different possible pairs of values for a and b: <p>$ab= 18$</p> <p>1) a= b= 2) a= b= 3) a= b=</p>	a	b											<ul style="list-style-type: none">Rhian is solving the equation $a + b = 18$ <p>a and b are both positive whole numbers.</p> <p>Rhian says,</p> <div><p>“a and b must both always be less than 18.”</p></div> <p>Do you agree?</p> <p>Explain your reasoning.</p> <ul style="list-style-type: none">Toby is finding a pair of numbers to fit the equation: <p>$2a + b = 15$</p> <p>Both letters represent whole numbers.</p> <p>Toby says, “One of the numbers must be odd and one must be even,”</p> <p>Do you agree with Toby?</p> <p>Show your reasoning.</p>	<ul style="list-style-type: none">a and b stand for whole numbers. $a + b = 1000$ and a is 150 greater than b. Work out the values of a and b. <ul style="list-style-type: none">A rectangle has the area 24cm^2. This is expressed through the equation $l \times w = 24\text{cm}^2$. <p>What could l and w stand for? Draw the rectangles to prove that the area is 24cm^2.</p> <ul style="list-style-type: none">x and y are both whole positive numbers. When multiplied together they make an odd number under 20 What could x and y be?
	a	b													