



Maths Focus: Mental and written addition, understanding the value of numbers and identifying a rule

Helpful Hints: Think carefully about why some positions in the 'Magic Cross' may mean that some numbers are added more than once

Level 1	Level 2	Level 3
<div data-bbox="264 619 537 890" data-label="Diagram"> </div> <p data-bbox="91 1007 719 1166">This is a 'Magic Cross'. Timmy arranges the number 1-5 in this. He adds up the total of the vertical line (yellow) and the total of the horizontal line (blue) to get an overall total.</p> <ol data-bbox="91 1222 707 1422" style="list-style-type: none"> 1. What is the lowest total he can make? 2. What is the highest total he can make? 3. Can he make a total of 18? How? 4. Can you explain how the position of the numbers changes the total? 	<div data-bbox="864 512 1344 995" data-label="Diagram"> </div> <p data-bbox="763 1015 1424 1174">This is a 'Magic Cross'. Timmy arranges the number 1-9 in this. He adds up the total of the vertical line (yellow) and the total of the horizontal line (blue) to get an overall total.</p> <ol data-bbox="763 1230 1379 1430" style="list-style-type: none"> 1. What is the lowest total he can make? 2. What is the highest total he can make? 3. Can he make a total of 49? How? 4. Can you explain how the position of the numbers changes the total? 	<div data-bbox="1597 512 2076 995" data-label="Diagram"> </div> <p data-bbox="1462 1015 2163 1214">This is a 'Magic Cross'. Timmy arranges the numbers 1, 12, 23, 34, 45, 56, 67, 78 and 89 in this. He adds up the total of the vertical line (yellow) and the total of the horizontal line (blue) to get an overall total.</p> <ol data-bbox="1462 1238 2175 1437" style="list-style-type: none"> 1. What is the lowest total he can make? 2. What is the highest total he can make? 3. What is the closest he can get to 430? 4. Can you explain how to get the lowest number with a new set of numbers?