

Algebra Investigation - T Shapes

If you start putting numbers into a grid that is 9 columns wide then you get this layout:

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27
28	29	30	31	32	33	34	35	36
37	38	39		
...		

If I place a T shape on the numbers as shown then we have:

11	12	13
	21	
	30	

Adding the five numbers gives an answer of 102.

$$11 + 12 + 13 + 21 + 30 = 87$$

Put the T shape on other positions on a grid with 9 columns and find the total when the numbers are added.

Consider how the position of the grid affects the total.

Can you create a general rule relating the position of the grid to the total?

Consider how you present your investigation; in particular consider the mathematical notation and the choice of any letters you use to represent numbers.

Extension tasks: What happens if I use a different grid size? What happens if I rotate the T? Does the size of the T matter?

Shapes Of Algebra Investigation 5 Answers

Lei Huang



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