

a What are 1, 4, 9, 16, ... called? <i>square numbers</i> square numbers	b Find the 7th square number <i>49</i> a square number by its position	c What are 1, 3, 6, 10, ... called? <i>triangular numbers</i> triangular numbers	d Find the next two terms of 1, 3, 6, 10, ... <i>15, 21</i> the step grows by one each time
e Find the 7th triangular number <i>28</i> a triangular number by its position	f What are 1, 8, 27, 64, ... called? <i>cube numbers</i> cube numbers	g Find the 5th cube number <i>125</i> a cube number by its position	h List the numbers under 100 that are both square and cube numbers. <i>1, 64</i> a square that is also a cube
i Find the square number from 2 to 50 that is also a triangular number. <i>36</i> a square that is also triangular	j Write the first four terms when the first term is 5 and the common difference is 3. <i>5, 8, 11, 14</i> an arithmetic progression	k Find the common difference of 30, 24, 18, 12, ... <i>-6</i> a negative common difference	l Find the 20th term of 5, 8, 11, 14, ... <i>62</i> a term far along

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