**Factors and Multiples Puzzle**

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**Object of the puzzle**

**To place all the numbers and headings within the board so that the numbers satisfy the condition given by the heading both horizontally and vertically**

**Numbers available**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** |
| **6** | **7** | **9** | **10** | **11** |
| **12** | **15** | **16** | **18** | **20** |
| **21** | **23** | **24** | **25** | **30** |
| **35** | **36** | **45** | **55** | **60** |

**Headings Available**

|  |  |  |
| --- | --- | --- |
| **PRIME NUMBERS** | **ODD NUMBERS** | **TRIANGULAR** **NUMBERS** |
| **SQUARE NUMBERS** | **EVEN NUMBERS** | **FACTORS OF 60** |
| **NUMBERS LESS** **THAN 20** | **MULTIPLES OF 5** |  |
| **NUMBERS MORE****THAN 20** | **MULTIPLES OF 3** |  |

Hint 2

Triangular numbers

A number which can be represented by a triangular array of dots. 1, 3, 6, 10, are all triangular numbers.

By pictuing each integer as a row of dots the image shows why this set of numbers has the name "triangular".
The first triangular number is 1.
The second triangular number is 1+2=3.
The third triangular number is 1+2+3=6.
The fourth triangular number is 1+2+3+4=10.
The nth triangular number is 1+2+3+...+n.