

RAM Maths Circle

Date: January 20, 2024
Swami Vivekanand School, Dombivli

The following problems were discussed in this session.

- A positive integer n is 'nice' if we can write n as $n = a + b + c$ where $a < b < c$ and a divides b divides c . Find all 'nice' numbers up to 100.

- R, M & O are whole numbers such that:

$$R \times M \times O = 240$$

$$R \times O + M = 46$$

$$R + M \times O = 64$$

What is $R + M + O = ?$

- If $a + 1 = b + 2 = c + 3 = d + 4 = e + 5 = a + b + c + d + e + 3$, then what is $a^2 + b^2 + c^2 + d^2 + e^2$?



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