MATHCOUNTS® Problem of the Week Archive

Symbols - July 15, 2024

Problems & Solutions

For the following problems, let m @ n = m + 2n.

What is the value of 14 @ 8?

Since m @ n = m + 2n, it follows that 14 @ 8 = 14 + (2)(8) = 14 + 16 = 30.

If m @ 6 = 42, what is the value of m?

Substituting and solving for m, we have $m @ 6 = 42 \rightarrow m + (2)(6) = 42 \rightarrow m + 12 = 42 \rightarrow m = 30$.

What is the value of 6 @ (6 @ 3)?

Following the order of operations, we start by solving the 6 @ 3 from within the parenthesis first. We have 6 @ 3 = 6 + (2)(3) = 6 + 6 = 12. So, now we are solving 6 @ 12 and get 6 @ 12 = 6 + (2)(12) = 6 + 24 = 30.

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Problems

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If m @ 6 = 42, what is the value of m?

What is the value of 6 @ (6 @ 3)?