

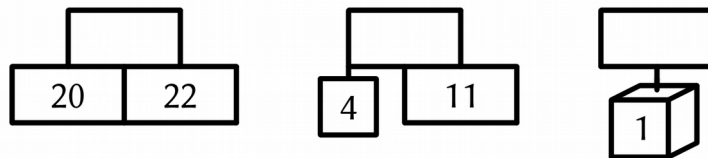
chalkdust

A magazine for the mathematically curious

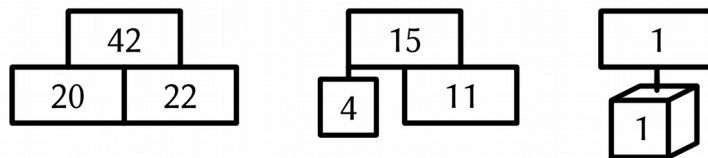
Christmas conundrum #2

In the Christmas tree below, the rectangle, baubles, and the star at the top each contain a number. The square baubles contain square numbers; the triangle baubles contain triangle numbers; and the cube bauble contains a cube number.

The numbers in the rectangles (and the star) are equal to the sum of the numbers below them. For example, if the following numbers are filled in:



then you can deduce the following:



With the information given in the tree, you can work out the rest of the numbers. Once you've worked out the number in the star at the top, head to chalkdustmagazine.com and enter these numbers for a chance to win a signed copy of *The Indisputable Existence of Santa Claus* by Hannah Fry and Thomas Oléron Evans.

