

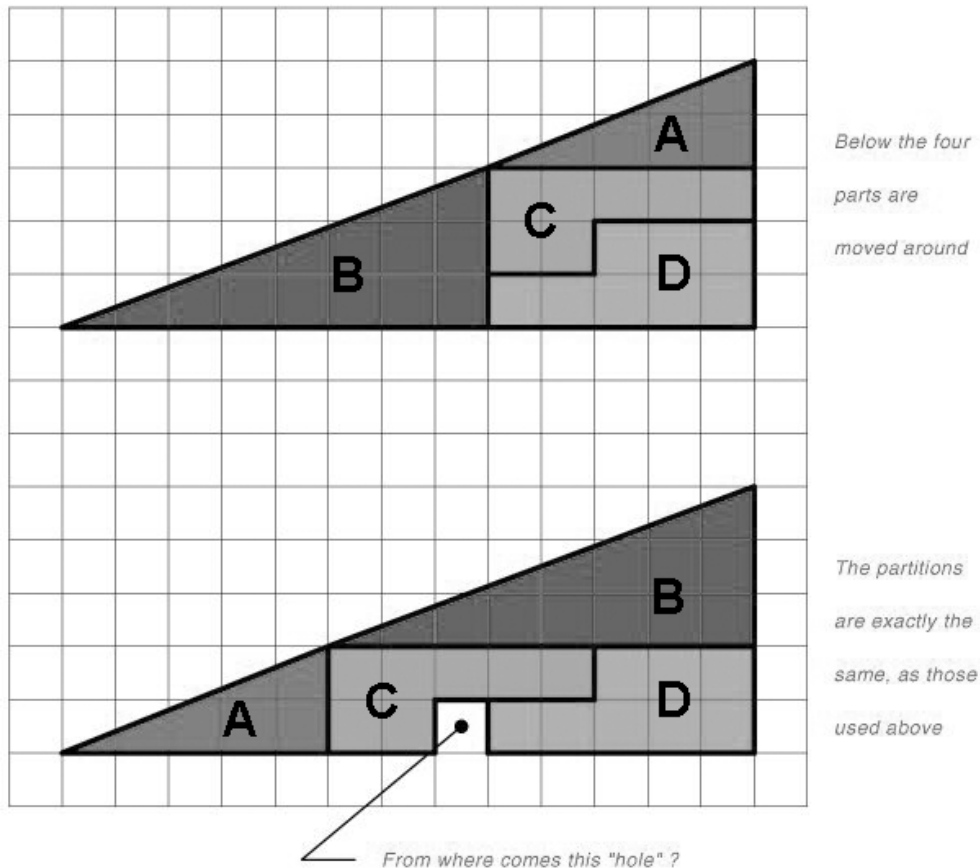


Neurological Nasties VI

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1. *HOW CAN THIS BE TRUE ?*



2. $\spadesuit \spadesuit \spadesuit \spadesuit = \clubsuit \clubsuit$
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The top two equations are in perfect balance. How many diamonds will be needed to balance the third equation ?

3. Pythagorus has thought of a number between 13 and 1300.
 Euclid is trying to guess it.
 Euclid asks "Is the number below 500 ?" Pythagorus says "yes".
 Euclid asks "Is the number a perfect cube ?" Pythagorus says "yes".
 Euclid asks "Is the number a perfect square ?" Pythagorus says "yes".
 Pythagorus then says "Only two of my answers are correct and the number starts with a 5, 7 or 9."