



Level 1

Logic/Reasoning Olympics

Q1. You have four numbers: 2,3,4, and 5. You also get a plus sign, and an equal sign. Now, make an equation with some stuff on one side of the equal sign, and some stuff on the other.

You might say, "This is easy!" $5+2=3+4$...but, you're using two plus signs, and you're only allowed to use one.

Q2. You have a four-ounce glass and a nine-ounce glass. You have an endless supply of water. You can fill or dump either glass.

Now, it just so turns out that it's possible to measure six ounces of water using just these two glasses.

What's the fewest number of steps in which you can measure six ounces?

Q3. There are three boxes on the table. One is made of gold. One is made of silver. And the third is made of lead. Inside one of these boxes is the treasure. You have to figure out which one has the treasure, without opening the boxes, of course.

To assist you in this endeavor there are inscriptions on each of the boxes. The gold box says, "The treasure is in this box." The silver box says, "The treasure ain't in this box." The lead box says, "The treasure ain't in the gold box." Only one of the three statements is true.

Which box has the treasure?



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