

1. From Harry Potter and the Philosopher's Stone: where is the potion to move ahead?

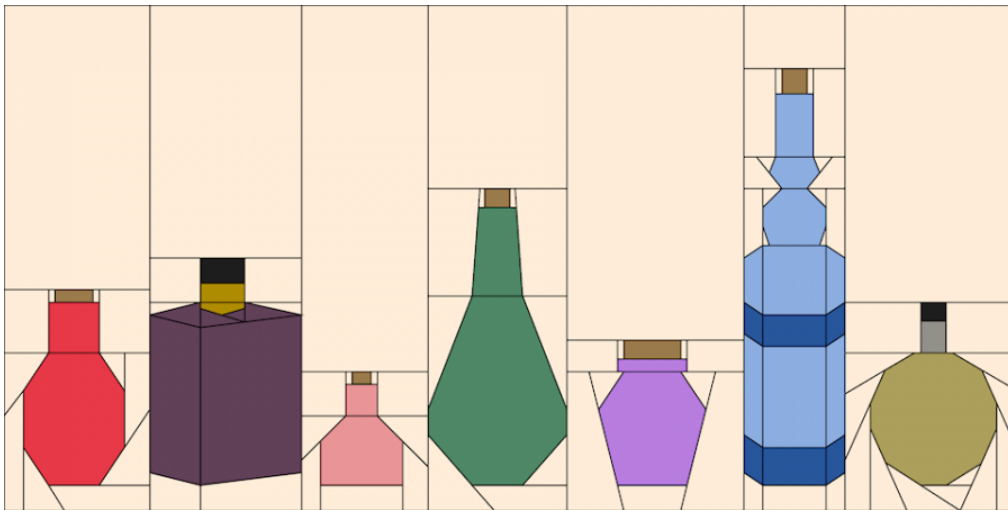
“Danger lies before you, while safety lies behind,
Two of us will help you, whichever you would find,
One among us seven will let you move ahead,
Another will transport the drinker back instead,
Two among our number hold only nettle wine,
Three of us are killers, waiting hidden in line.

Choose, unless you wish to stay here for evermore,
To help you in your choice, we give you these clues four:

First, however slyly the poison tries to hide
You will always find some on nettle wine's left side;
Second, different are those who stand at either end,
But if you would move onwards neither is your friend;

Third, as you see clearly, all are different size,
Neither dwarf nor giant holds death in their insides;

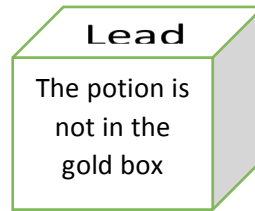
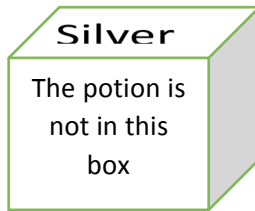
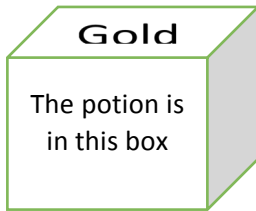
Fourth, the second left and the second on the right
Are twins once you taste them, though different at first sight”



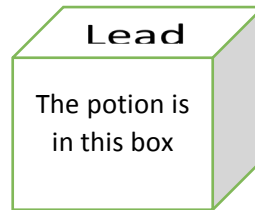
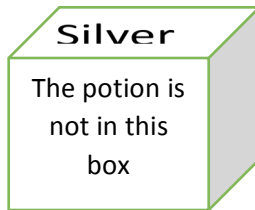
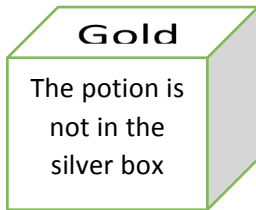
Following questions adapted from "What is the name of this Book?" by Raymond Smullyan

Snape figured out that his riddle was not very difficult, so he added a few more flames and hid the potions needed to go through them in different boxes, each with its own inscription. He was nice enough to leave a note for each riddle. In the following questions, you need to figure out where the potion to move ahead is hidden; the gold box, the silver box or the lead box.

2. "At most one inscription is true"



3. "At least one inscription is true and at least one is false"



Knights and Knaves: Knights always tell the truth, knaves always lie. Can you tell who is who?

4. There are two people, Alice and Bob. Alice says: "At least one of us is a knave". What is Alice? What is Bob?

5. There are two people, Alice and Bob. Alice says: "Either I am a knave or Bob is a knight". What is Alice? What is Bob?

6. There are three people, Alice, Bob and Charlie.
Alice says: "All of us are knaves".
Bob says: "Exactly one of us is a knight"

What is Alice? What is Bob? What is Charlie?

Logic puzzles:

7. A drawer has 24 red socks and 24 blue socks. I am trying to get dressed in the dark. What is the minimum number of socks I need to get from the drawer so that I am sure to have a matching pair (two socks of the same color)?

8. In the Catholic church, can a man marry his widow's sister?

9. A train leaves from Boston to New York. An hour later a train leaves from New York to Boston. They are traveling at the same speed. Which train will be closer to Boston when they meet?

10. On a certain house, the two halves of the roof are unequally pitched; one half slopes downwards at an angle of 60 degrees and the other at an angle of 70 degrees. Suppose that a rooster lays an egg right on the peak, on which side of the roof will the egg fall?