**Burning Ropes**

You are given two ropes and a lighter. Each of the two ropes has the following property: if you light one end of the rope, it will take exactly one hour to burn to the other end. It doesn't necessarily burn at a uniform rate. How can you measure a period of 45 minutes?

**Cork, Bottle, Coin**

You put a coin in an empty bottle and insert a cork in the bottle's opening. How can you remove the coin without taking out the cork or breaking the bottle?

**A Locked Door**

You have 100 bags of coins each with 100 coins, but only one of these bags has gold coins. You have to identify this bag to leave the room. The gold coin weighs 1.01 ounce and the other coins weighs 1 ounce. You also have a scale, but can only use it once. How can you identify the bag of gold coins?

**Glass Half Full**

You are in an empty room with a transparent glass of water. The glass is a right cylinder and appears to be half full. How can you accurately figure out whether the glass is half full, more than half full, or less than half full? You have no rulers or writing utensils.

**Globe Traversal**

Give an example of a place on earth where one could walk one mile south, then one mile west, then one mile north and end up in the same spot? Assume the earth is a solid smooth sphere.

*North Pole*

**Brown Eyes and Red Eyes**

There is a monastery of silent monks with no mirrors and one important rule: no red eyes! If a monk discovers he has red eyes he must leave that night. All is well until a visitor says "at least one of you has red eyes!". What happens next?
Row, Row, Row Your Trees

How can seven trees be planted such that there are six rows of trees in straight lines consisting of three trees?

Unusual Suspects

The police rounded up Jim, Bud and Sam yesterday, because one of them was suspected of having robbed a bank. The three suspects made the following statements under intensive questioning: Jim: I’m innocent. Bud: I’m innocent. Sam: Bud is guilty. If only one of these statements is true, who robbed the bank?