

## Lateral Thinking Problems:

1. You are standing next to three light switches. All three switches are now in the off position. You know these switches belong to three lights in another room, but you can't see into the other room.

You can do whatever you want with the switches, but when you are finished you must go into the other room and say which switch belongs to which bulb. You cannot enter the room more than once. What will you do to determine which bulb belongs to which switch?

2. How can you divide a cake into eight pieces using just three cuts?
3. A farmer is travelling with a fox, a goose, and a bag of beans. During his journey, he comes across a river. There is a boat tied to the shore that he can use to cross the river.

The farmer can only fit one thing in the boat with him at a time. If left alone together, the fox will eat the goose, or the goose will eat the beans. How does the farmer get everything across the river safely?

4. Your sock drawer only contains 18 white socks and 18 blue socks. How many times do you need to reach inside the drawer and take out a sock to guarantee a matching pair?