1. Problem:

A man needs to get his cat, parrot, and a bag of seed across the river. He can only take 1 at a time and can not leave the parrot with the seed or the cat with the parrot. He must find a way to get all 3 across the river safely.

Solution:

The man should take the parrot across the river first. The man should then come back for the cat and take it across the river. The man should bring the parrot back across the river. The man should then take the bag of seed across the river. The man should then come back across the river to retrieve the parrot once more. Once the man reaches the other side everything should be safe and ready to continue the journey.

2. Problem:

There are 10 black socks, 6 brown socks, and 4 white socks: 20 total. You must find a matching pair of each color, in the dark. The solution should include how many socks you would need to grab in order to have a matching pair of each color.

Solution:

In order to grab 1 matching pair of socks, you would need to grab at least 4 socks.

In order to grab a matching pair of each color, you would need to grab at least 12 socks.

3. Problem:

A little girl is counting her fingers 1-10. When she stops the first time she stops at her first finger. The solution should include which finger she will stop on if she counts to 10, 100, and 1000.

Solution:

After counting my own fingers several times, I have come to this solution:

If the little girl counts to 10 again, she still stop at her middle finger.

If the little girl counts to 100, she will stop at her middle finger again.

If the little girl count to 1000, she will once again stop at her middle finger.

In conclusion, if the little girl counts to 10, 100, or 1000 she will stop at the same finger each time.