1. ***A Cat, a Parrot, and a Bag of Seed:***

This problem has a man, a cat, a parrot and a bag of seed. The man has a boat and needs to transport the 3 across the river. The man can only fit one item plus himself on the boat at a time. If he leaves the cat with the parrot the cat will eat the parrot and if the man leave the seed with the parrot the parrot will eat all the seed.

1. The man must leave 2 items together on both sides of the river. The hardest part about this problem isn’t the first trip it would be the second. The cat and the seed could stay together but not the other way. The parrot could also fly I would hope.
2. The possible solutions to this problem could be to have the parrot fly about the boat with him the on all trips. This could make it so the cat could go first and stay alone then the seed. All while the parrot is flying above the boat with the man.
3. This problem would require some kind of a rope or string to attach to the parrot so he would stay with the boat. This would also require that the man take more then one trip. But in the end the goal would be met.
4. The possible solution would be to take the cat with the parrot flying along with the boat so that neither the cat nor the parrot would be left alone. This would take all possibilities of them eating anything away.
5. Socks in the Dark:

This problem you have to pick socks from a drawer in the dark. You have 20 socks with 5 pairs that are black, 3 pairs that are brown and 2 pairs that are white. The main question is to be able to select the smallest number of socks to get a matching pair, and then to get a matching pair in each color.