**A Cat, a Parrot, and a Bag of seed.**

1. The problem is that a ferryman has to get all three, a cat, a parrot, and a bad of seed, across the river safely. However, he has a small boat and can only take one item at a time across the river. Something that may help that wasn’t specifically brought up in the word problem is that it is very likely that the parrot can fly.
2. One constraint is that the cat is willing to eat the parrot and the other constraint is that the parrot will no doubt eat the seeds as well.
3. Utilize the parrot’s flying capabilities.
4. Although it might not sound so straightforward and conventional, I think that the solution I brought up should solve the issue at hand.
5. I think if he were to take the parrot across first so it should know where to be and then bring the cat across. Instinctively the parrot should take flight. Perhaps, the parrot is the man’s pet and would also follow him across, keeping it safe from the cat. Now the man can grab the bag of seed and head back to the other side of the river.

**Socks in the Dark**

1. From what I my understanding, the problem of this situation is that the person is just simply too lazy to put their socks together before putting them into the sick drawer.
2. A constraint is that the lights are off. Sub goals- Minimum number of socks to pull to get: a) At least one matching pair – **2 is the minimum number of socks that need to be picked to get a matching pair.** b) At least one matching pair of each color - **to get one matching pair of each color, the person would have to pick a minimum of 6 socks.**
3. One solution would be to just put your socks together before putting them away.
4. Yes, if they were to have put their sock together before putting them into the drawer then all their problems could have been prevented.
5. I suppose aside from putting the socks together before putting them into the drawer. Maybe the person could have had them organized like all the white on the right, black socks in the middle, and brown socks on the left. Any order would do. Or they could also simply turn on the lights before grabbing their socks.

**Predicting Fingers**