Nchukym Berry

A Cat, A Parrot and a bag of of Seeds

The problem, which is presented, is that the man needs to get himself and his belongings to the other side of the river. He is going to need to make multiple trips but he has to make the right decision in which belongings he should transport and in which order they should go.

Some other problems that could present themselves that are not visible or stated from the scenario is the possibility of the parrot flying away, how large the bag of seeds are and how they are packaged. Also, another problem is that is not stated in the problem how the man intends to keep the cat, parrot, and seeds contained while on the other side of the river. The overall goal is to get all three plus the man to the other side without losing any to the other.

The constraints in this scenario are the inability to travel with all three across the water, and not being able to leave one alone with the other.

The sub-goal is to safely get the man and his belongings across the water without any loss.

A solution for the possibility of the parrot flying away would be for the man to take some tree leaves and tie them together. He could then use some more leaves to make a mini cage that lays on the ground and stick the bird inside. By doing this, the man will have hidden the parrot which will keep the cat from eating it and keep the parrot from flying away.

A solution to keeping the cat and parrot contained while he is gone would be to utilize the leaves and a few sticks to build a sturdy leash for the cat. He could then tie the leash to a tree or use an extra stick to secure the leash into the ground.

EVALUATE:

These solutions do meet the goals. By securing the cat and hiding the parrot and securing the parrot, the chances of one eating the other are reduced.

These will also work for each case, whether the seeds, or the cat are taken over the water first.

SOLUTION AND PLAN:

The solution is for the man to take some extra time and build a cage for both the cat and the parrot. First, he will take the parrot on the boat and build the cage for the parrot as described. Next he will go back and bring over the cat and build a secure cage or leash so the cat does not wander or get to the parrot. Lastly, he will go back and get the bag of seeds.

In order to test this solution, what I did was used a simple drawing plan. Knowing that the cat is a danger to the parrot and the parrot is a danger to the seeds, the plan was to figure out how two can be alone together without harming the other. This is the best solution.