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Problem Solving Activity

A Cat, a Parrot, and a Bag of Seed

1. Define the problem
   1. The problem with this scenario is that the man has to get to the other side of the river but can only bring himself and one other passenger on the boat. He must now choose which one is plausible to bring with him.
   2. The insight that I can offer to the problem is that cats don’t eat seed and parrots can fly.
   3. The overall goal is to get everyone across the river safely without the cat eating the parrot or the parrot eating the seed.
2. Break the problem apart
   1. What are the constraints?
   2. What are the sub-goals?
3. Identify potential solutions
   1. For each of the sub-problems you’ve discussed in #2, what is a possible solution?
4. Evaluate each potential solution
   1. Does each solution meet the goals?
   2. Will each solution work for ALL cases?
5. Choose a solution and develop a plan to implement it.
   1. Explain the solution in full
   2. Describe some test cases you tried out to make sure it works. (you can include drawings and diagrams as part of you explanation as long as they are clearly communicating the solution).