

### **Problem 1. Which Switch?**

**Hints:**

1. What happens to light bulbs when you turn them on?
2. Can you turn on multiple switches at once?

### **Problem 2. Weighing Blocks**

**Hints:**

1. If two groups are equal, what does that tell you versus if two blocks are not equal?
2. If you had a group of 3, how can you determine the heavier block in one weighing?

### **Problem 3. Three Counters**

**Hints:**

1. If one and only one line is true, what does that mean for the other two lines?
2. What methods have you tried to set up your work? Use a logic table, go line by line?

### **Problem 4. Murder Mystery**

**Hints:**

1. Every clue is important, and some are especially powerful when used together.
2. If a person is mentioned in relation to another person and their profession, then they can't be that profession themselves.