

Question 2. Here is a problem from the textbook. *Order the following numbers from smallest to largest: number of telephones on the planet, number of honest members of Congress, number of people, number of grains of sand, number of states in the United States, number of cars.* Come up with an ordering, and explain your reasoning—but then you can also criticize the problem if you want.

Question 3. Continue work on the four-coin problem (four coins including one counterfeit that can be light or heavy; use the balance twice to find the counterfeit). Draw a diagram. We showed that the first move has to be to compare one coin to one other coin. (A good way to get a check-plus would be to work on the problem when you have a fifth coin available that you know is real; in that case, it's possible to find the counterfeit and say whether it's light or heavy.)