

1. What is your name?

Answers may vary... =)

2. Consider the weighted voting system $[10: 12, 5, 4]$. Which player is the dictator?

Player 1 (or P_1) can pass a motion without any of the other players. The other players can't pass a motion without P_1 , either. So P_1 is the dictator.

3. Consider $[12: 9, 4, 2, 1]$. Which player has veto power?

No motion can pass without P_1 's 9 votes. Therefore P_1 has veto power.

4. Consider $[10: 3, 2, 1]$. Is this a valid weighted voting system? Why or why not?

There are $3 + 2 + 1 = 6$ votes total, which is less than the quota. Therefore this is not a valid system.