

1- 1

One flips four coins.

- (1) List all the possible outcomes.
- (2) List all the different macrostates and their possibility.
- (3) Compute the multiplicity for each macrostates.
- (4) If one flips 50 coins, how many possible outcomes (microstates) are there?

1-2

Calculate the multiplicity of an Einstein solid with 5 oscillators and 6 units of energy.