

Example to Illustrate Overcounting:

Let's consider the actual students:

•**Grade 11 students:** E1, E2, E3, E4, E5, E6

•**Grade 12 students:** W1, W2, W3, W4, W5, W6, W7, W8, W9

Scenario A:

•**Initial selections:**

•Grade 9: N1

•Grade 10: T1

•Grade 11: E1

•Grade 12: W1

•**Additional student:** E2 (from grade 11)

•**Committee:** {N1, T1, E1, W1, E2}

Scenario B:

•**Initial selections:**

•Grade 9: N1

•Grade 10: T1

•Grade 11: E2

•Grade 12: W1

•**Additional student:** E1 (from grade 11)

•**Committee:** {N1, T1, E2, W1, E1}

•**Observation:** Both scenarios result in the **same committee**. This is the overcounting scenario we need to be wary of, and why we have to count it the way demonstrated in the solution.