

## Handout #2

### Working definition of **Helpful Mathematical Learning Goals**:

- Have specific mathematical content (subject topic or mathematical practice)
- Describes an increased/new proficiency (something students can do/understand better after once they leave class)

### **TASK: Which ones fit the working definition?**

*Work on this ALONE for 3-5 minutes. Then PAIR UP with one other person. Try to reach consensus. Justify. Now, group up at your table. Try to reach consensus. Justify. Share whole group: Try to reach consensus. Justify.*

### **Which of these five statements match our working definition of mathematical learning goals? (More than one answer is possible, but not guaranteed).**

- a) Students will get an 85% or higher on fifteen homework problems in section 5.6: combinations and permutations.
- b) Students will be able to comprehend counting scenarios and correctly decide whether to use a permutation calculation, a combination calculation, or neither.
- c) Students will explore complex counting problems involving combinations and permutations.
- d) Students will work on counting problems where they apply formulas of combinations and permutations.
- e) Students will accurately compute the numerical value of combinations and permutations without a calculator.