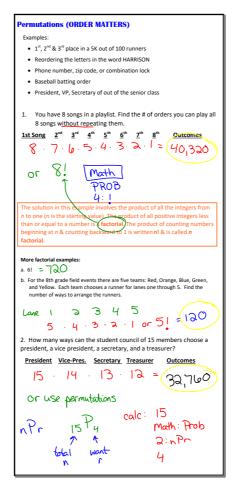
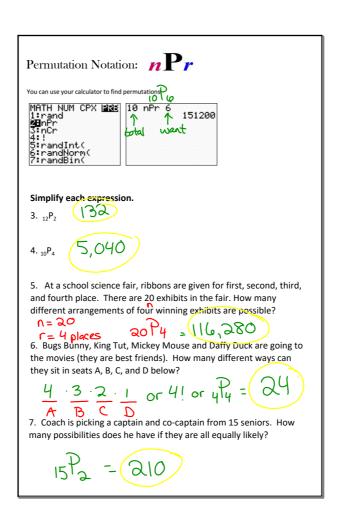
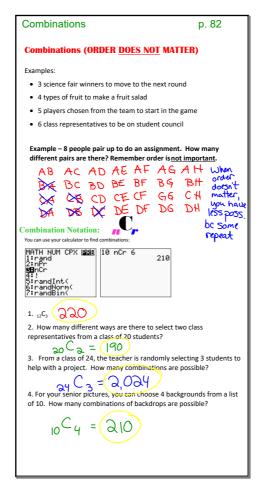


p.80-82 Counting Principle Permutation and Combination INB notes blank Movebuler 28, 2017







Clarification and Summary on Combinations and Permutations

 "My fruit salad is a combination of apples, grapes and bananas"

We don't care what order the fruits are in, they could also be "bananas, grapes and apples" or "grapes, apples and bananas", its the same fruit salad.

"The combination to the safe is 472".

Now we **do** care about the order. "724" would not work, nor would "247". It has to be exactly **4-7-2**.

- If the order doesn't matter, then it is a <u>Combination</u>.
- If the order does matter, then it is a <u>Permutation</u>.

A Permutation is an ordered Combination.