
For each of the following problems circle T if the given statement is always true and F if the statement is sometimes false. There is no partial credit on this part of the quiz.

1. T F A set with n elements has 2^n proper subsets.
2. T F If you toss seven fair coins, there are 120 ways to obtain at least 2 heads.
Complete the following problems. Show all work and explain your reasoning.
3. Write out the first 7 rows of Pascal's triangle.

4. How many different ways could three distinct days of the week be chosen so that at least one of them begins with the letter S? (Assume that the order of selection is not important).