

Name (print): _____

STAT 24400 Statistics Theory and Methods I
Homework 0: Due 3:00PM Thurs January 7 2015 in class.

This problem is to be completed WITHOUT SPEAKING OR OTHERWISE COMMUNICATING WITH ANYONE ABOUT IT. CLOSED BOOK - NO WEB RESEARCH AND ONLY THE TEXT MAY BE CONSULTED. SHOW WORK.

Problem: Three fair six-sided dice are thrown. What are the probabilities of “obtaining a three” and of “obtaining a four”? For this problem, “obtaining a three” means getting at least one die with a 3, OR any two dice that total 3, OR all three dice total 3. That is, it means getting a three by at least one of these definitions. “Obtaining a four” is defined similarly. Give answers as ratios of integers, not as decimals.

- Probability “Obtain 3” = _____
- Probability “Obtain 4” = _____
- Work: