



MATH103: Chapter 11 Assignment

Counting Methods and Probability Theory

The assigned exercises are from the fifth edition of the textbook. The exercises begin at the specified page number and are the exercise sets at the end of each section. Do all listed problems neatly with pencil on paper. Showing your step-by-step solution process is the important task for all assignments, because it reinforces your understanding of the content. Cleanly, erase all errors before writing the correct solution and circle your answer.

Odd problem solutions are in the Student's Solutions Manual. Even number problem answers (underlined) should be checked with the answers provided on the back of this handout. If you feel the answer is incorrect, then please discuss this problem in the next class. Your homework will be collected and graded at the beginning of Exam 3. You will receive a zero on the assignment if it is not submitted at that time.

Date Due: Week 6 Class 2

Section	Page	Exercise Set Selected Problems
11.1	606	3, 5, <u>6</u> , 9, 13, 15, <u>16</u> , 17, 19, 21, <u>22</u>
11.2	613	1, 5, 7, 15, <u>16</u> , 19, 27, 31, 35, <u>36</u> , 37, 41, 43, 45, 47
11.3	619	1, 3, 7, <u>8</u> , 15, 19, 23, 27, <u>28</u> , 29, 31, 35, <u>36</u> , 37, 39, 41, 43, 49, <u>50</u> , 53, 57
11.4	627	3, 5, <u>8</u> , 13, 15, <u>18</u> , 21, 23, <u>26</u> , 29, 31, 35, <u>38</u> , 55, 57, 59, <u>60</u> , 63, 67, <u>70</u>
11.5		Skip this section
11.6	644	3, 5, 7, 9, 13, 17, <u>22</u> , 23, 25, 31, <u>34</u> , 35, 37, 39, 41, 43, 49, 51, <u>54</u>
11.7	656	3, 5, <u>8</u> , 9, 11, <u>14</u> , 17, 19, 23, 25, 33, <u>36</u> , 37, 39, 41, <u>46</u> , 47, 51, 55, 57, <u>58</u> , 65, 69, <u>72</u>
11.8		Skip this section



Answers to assigned even numbered exercises arranged by section:

11.1) $\underline{6}$ 234 $\underline{16}$ 6561 $\underline{22}$ 10^9 or 1,000,000,000

11.2) $\underline{16}$ 26,970 $\underline{36}$ 5040

11.3) $\underline{8}$ 210 $\underline{28}$ $\frac{21}{44}$ $\underline{36}$ 45,057,474 $\underline{50}$ 4495

11.4) $\underline{8}$ 1 $\underline{18}$ $\frac{1}{52}$ $\underline{26}$ $\frac{3}{4}$ $\underline{38}$ $\frac{5}{36}$ $\underline{60}$ 0.15 $\underline{70}$ 0.11

11.6) $\underline{22}$ $\frac{1}{26}$ $\underline{34}$ $\frac{3}{4}$ $\underline{54}$ $\frac{43}{69}$

11.7) $\underline{8}$ $\frac{1}{12}$ $\underline{14}$ $\frac{1}{6}$ $\underline{36}$ $\frac{5}{58}$ $\underline{46}$ $\frac{8}{285}$

$\underline{58}$ $\frac{1601}{164,128} \approx 0.010$ $\underline{72}$ $\frac{96.9}{121.3} \approx 0.799$