

MATH 1120-003
Spirit & Uses of Mathematics 2
Homework 2/13

Read: Section 7.3

Exercises: 7.1: 6–8, 12–14abcd, 23.
7.2: 1–2, 5, 8–9.

Additional Problem: Mrs. Jones has two children. (a) Assuming that boys and girls are equally likely, what is the probability that she has a boy and a girl? (b) Suppose you know that one of Mrs. Jones' children is a girl. What is the probability that she has a boy and girl? (c) Now suppose that you know that her oldest child is a girl. What is the probability that she has a boy and a girl?