

DeGroot and Schervish 1: Introduction to Probability

These notes reflect material from our text, *Probability and Statistics, Fourth Edition*, by Morris H. DeGroot and Mark J. Schervish, Addison Wesley, ISBN 978-0-321-50046-5, 2012.

1.4 Set Theory

8. Blood types. A is the event that blood reacts with anti- A , and it contains blood types **A** and **AB**, but not **B** or **O**. B is the event that blood reacts with anti- B and it contains blood types **B** and **AB**, but not **A** or **O**. Then,

- blood type **A** corresponds to event $A \cap B^c$
- blood type **B** corresponds to event $B \cap A^c$
- blood type **AB** corresponds to event $A \cap B$
- blood type **O** corresponds to event $A^c \cap B^c$

14. Countable sample space.