

## PROBABILITY: INTRODUCTION [PIRNOT 13.1]

**EX 13.1.1:** Two fair 3-sided dice are rolled. Each die has the numbers 1,2,3 on its faces.

- (a) Determine the sample space for the experiment.
  
  
  
  
  
- (b) Find the probability that die 1 shows 2 and die 2 shows 1.
  
  
  
  
  
- (c) Find the probability that both dice show a 3.
  
  
  
  
  
- (d) Find the probability that the two dice total 4.
  
  
  
  
  
- (e) What are the odds in favor of the two dice totaling 4?
  
  
  
  
  
- (f) What are the odds against the two dice totaling 4?