
Elementary Statistics – Practice Test – Chapter 3

Problems #1 through #9 use the data summarized in the table below.

A random sample of 97 male and female college student grades for a math class were gathered, and these are summarized in the table below. The letter grade “D” represents any substandard grade (D, F, or W). Compute the probabilities requested below.

	F = <i>female</i>	M = <i>male</i>
A	3	3
B	19	18
C	19	21
D	4	10

1. $P(F) =$
2. $P(M) =$
3. $P(F \& B) =$
4. $P(M \& B) =$
5. $P(A \& B) =$
6. $P(F \text{ or } B) =$
7. $P(B|F) =$
8. $P(B|M) =$
9. $P(\overline{B}) =$
10. Our class has 21 females and 12 males. Suppose we pick 3 people randomly without replacement. What is the probability that all three are female?