

1.
 - a. $\mu_V = 87.8, \sigma_V \approx 10.23$
 - b. $\mu_W = 18.2, \sigma_W \approx 10.23$

2.
 - a. $(0.2)(0.35) = 0.07$. The other ways of getting 2 total books are (Cece = 0 and Owen = 2) and (Cece = 2 and Owen = 0).
 - b. $0.07 + 0.05(0.55) + 0.45(0.10) = 0.1425$
 - c.

T	0	1	2	3	4	5
Probability	0.005	0.0375	0.1425	0.2975	0.3525	0.165
 - d. 3.45 books

3.
 - a. The shape of distribution C is approximately normal because both M and P are independent and are approximately normal.
 - b. $\mu_C = \$600, \sigma_C \approx \65
 - c. 0.062.
There is a 0.062 probability of randomly selecting a customer who purchases both a lawn mowing package and snow plowing package for a total cost that is greater than \$700.

4. $\mu_W = 1,600$ grams, $\sigma_W \approx 196.59$ grams

5. 0.3965

6. A

7. D