

Answers for Extra Problems For Sections 5.3 and 5.4

1. Expected value= 20

Standard deviation = 3.65

2. Expected value = 10

Standard deviation = 2.887

3. $\Pr(x > 2.3) = .9582$

4. $\Pr(360 < x < 410) = .44$

5. $\Pr(x < 105) = .6293$

6. Standard deviation = 9.539

7. Expected value = .40

8. Expected value = 250

9. Expected value= 105

Standard deviation = 8.261

10. $1 - .5398 = .460$

11. Expected value = \$2

12. 108 approximately (see problem 7 and 11 in section 5.4)