

AP STATISTICS

Probability Models (HW #35)

ANSWERS

1.
 - a) Mean = 90, SD = 13
 - b) Mean = 23, SD = 15
 - d) Mean = 30, SD = 8.66
 - e) Mean = 200, SD = 31.241
2.
 - a) Mean = 18,200 grams, SD = 450 grams
 - b) Mean = 18,200 kg, SD = 14.23 kg
3.
 - a) Approximately normal, Mean = 27 oz, SD = 0.5879 oz
 - b) Approximately normal, Mean = 263.2 oz, SD = 1.3026 oz
 - c) $z = 1.77$, Prob = 0.038
4.
 - a) Mean = 200.57, SD = 0.461
 - b) $z = -2.3644$, Prob = 0.009
5.
 - a) Mean = \$5.97, SD = 0.956...
 - b) $z = 3.18$, Prob = 0.0007
6.
 - a) Mean = 184, SD = 2460.7316...
 - b) $z = -2.1067$, Prob = 0.0176
7.
 - a) Mean = 839.6 grams
 - b) SD = 7.91 grams