# Homework Solutions
## Chapter 10 – Page 647

## Exercise 28

(a) (iii) 11.90 ounces.

(b) The chart gives us $s = 1.38$ and it also give us the standard error 0.15. Recall that the standard error (SE) is defined to be $\dfrac{s}{\sqrt{n}}$. So we can set up an equation and solve for $n$.

$$
\begin{aligned}
0.15 &= \frac{s}{\sqrt{n}}, \\
0.15\sqrt{n} &= s \\
\sqrt{n} &= \frac{s}{0.15} \\
&= \frac{1.38}{0.15} \\
&= 9.2, \\
n^2 &= 9.2^2 \\
&= 84.64.
\end{aligned}
$$

So the sample size was probably 85, maybe 84.