## Short Problem Set 2

In SPS01 you worked with a data set consisting of $301.69-\mathrm{oz}$ bags of $\mathrm{M} \& \mathrm{Ms}$ for which the number of yellow M\&Ms were reported as

231516161871781617132313108

## 1513141822155121616141914148

The experimental mean for this data set is 14.5 and the experimental standard deviation is 4.46 . If we assume that these are good estimates for the true mean, $\mu$, and the true standard deviation, $\sigma$, then what is the probability that the number of yellow $\mathrm{M} \& \mathrm{Ms}$ in a single random sample is:

1. between 16 and 23
2. greater than 17
3. less than 13
