

Stat 3233 – Applied Statistics Describing Distributions Worksheet

A candy manufacturer takes a sample of 500 of its packaged product from each of four production lines and observes the weights of the packages. The weight appearing on the package label is 12 ounces.

Write a paragraph describing each of these distributions, concentrating on the center and variability of the distributions. Your paragraph should include answers to the following questions:

- Which production line is the best and why?
- Which production line is the most stable, i.e., has the least variability in weights of the packaged product?
- Which production line is the least stable?
- Which two production lines have the same range, but have different levels of variability? Explain.

