Pre-Assessment Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit: Surviving a School Shooting

Answer the following questions to the best of your ability.

1. Students investigating the packaging of potato chips purchased 6 bags of Lay’s Ruffles marked with a net weight of 28.3 grams. They carefully weighed the contents of each bag, recording the following weights (in grams):

29.3, 28.2, 29.1, 28.7, 28.9, 28.5

 Estimate the true population mean weight for all the bags of Lay’s Ruffles.

1. A factory hiring people to work on an assembly line gives job applicants a test of manual agility. This test counts how many stangely shaped pegs the applicant can fit into matching holes in a one-minute period. The table below summarizes the data by gender of the job applicant.

|  |  |  |
| --- | --- | --- |
|  | Male | Female |
| Number of subjects | 50 | 50 |
| Pegs Placed: |
| Mean | 19.39 | 17.91 |
| SD | 2.52 | 3.39 |

Estimate the true parameter for the difference between the mean number of pegs placed between males and females.