Question

Let random variable W have mean $\mu_w = 58$ and standard deviation $\sigma_w = 8$. Let random variable X represent the **sum** of n = 169 instances of W.

Answerlist

- Determine the expected value of X. $\mu_x = ?$
- Determine the standard deviation of X. $\sigma_x = ?$
- Using normal approximation, determine P(X < 9767.68).
- Using normal approximation, determine P(X > 9861.28).

Solution

Answerlist

- 9802
- 104
- 0.3707
- 0.6293

Meta-information

extype: string exsolution: yo exname: UZ extol: 0.01