Practice worksheet | Statistics and regression

Normal distributions

Name: _____ Date: _____

6 questions | 18 marks

1. For X~N(40,9), state the mean and standard deviation. [3 marks]

2. A normal model has μ=100 and σ=15. Standardise x=85. [3 marks]

3. For μ=60 and σ=5, give the approximate central 68% interval. [3 marks]

4. For $\mu=60$ and $\sigma=5$, give the approximate central 99.7% interval. [3 marks]

5. In a continuous normal model, find $P(X=\mu)$. [3 marks]

6. A histogram has two well-separated peaks. Is a single normal model automatically justified by knowing its mean and SD? [3 marks]