

STA261 L0101: Quiz 1 - Solutions

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The quiz is out of 10.

1. (4 marks) This equals 0 by the LLN. Take off 2 marks if students say it's 0 but don't mention the Law of Large Numbers/LLN.
2. (6 marks) Replace $E(X)$ with \bar{X} and solve for θ to get $\hat{\theta} = 1/\bar{X}$. If students just write the correct answer with no work, give 4 marks. To get full marks, they need to write $E(X) = 1/\theta$, replace it with \bar{X} , and solve.