1.	A sample of $N = 50$ people from a population with mean equal to 50 is
	given a treatment. After treatment, we find a sample mean of $\overline{X} = 51$
	with $SS = 27,220$. Does the treatment result in larger scores compared
	to the general population?

- (a) explicitly define \mathcal{H}_0 and \mathcal{H}_1 .
- (b) calculate the observed t-score

- (c) calculate the resulting Bayes factor
- (d) calculate the posterior probability of the "winning" model.

2.	A sample of $N=16$ individuals is selected from a population with mean
	70 and given a treatment. After treatment, the sample mean is found
	to be $\overline{X} = 63.4$ with $SS = 960$. Does the treatment result in smaller
	scores compared to the general population?
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(a) explicitly define \mathcal{H}_0 and \mathcal{H}_1 .

(b) calculate the observed t-score

(c) calculate the resulting Bayes factor

(d) calculate the posterior probability of the "winning" model.