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Exercise 9

- (a) Enter the differences into the TI-83. The estimate of the population mean difference would be the sample mean difference: $\overline{d} = 4.167$.
- (b) That would be the sample standard deviation of the differences: $s_D = 6.308$.
- (c) The standard error of \overline{d} is $SE(\overline{d}) = \frac{s_D}{\sqrt{n}}$. The value is $\frac{6.308}{\sqrt{12}} = 1.821$. This is the amount by which we expect \overline{d} typically to deviate from the true difference μ_D .