

Section 6.3 HW Advice

1-3: Based on the definition of a Poisson process, and your ability to identify key values like lambda (λ) and t .

4-6: Computation of Poisson probabilities, as well as the mean ($\mu = \lambda t$) and standard deviation ($\sigma = \sqrt{\mu}$).

Problem 7

The mean is equal to the number of hits divided by the number of years. Be sure to use as many decimal places as you can when you type the mean in StatCrunch – do not round!

Problem 8

Part a: You can find the relative frequencies by opening the data in StatCrunch, making a Bar Plot with Summary, click on “Display Frequency Above Bar”, and change type to relative frequency.

Part b: You can find the mean by creating a Custom Calculator like we did in Section 6.1.

Part c: Open a Poisson calculator, and enter the value of the mean from part b. Calculate the probabilities when $x=0$, then $x=1$, and so on.

Part d: Be careful, you only get one chance at this question.