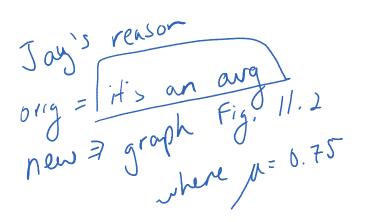
For a poisson distribution, does μ have to be an integer?

- A) I really think it's yes.
- B) I'm pretty sure it's yes.
- C) I'm pretty sure it's no.
- D) I really think it's no.



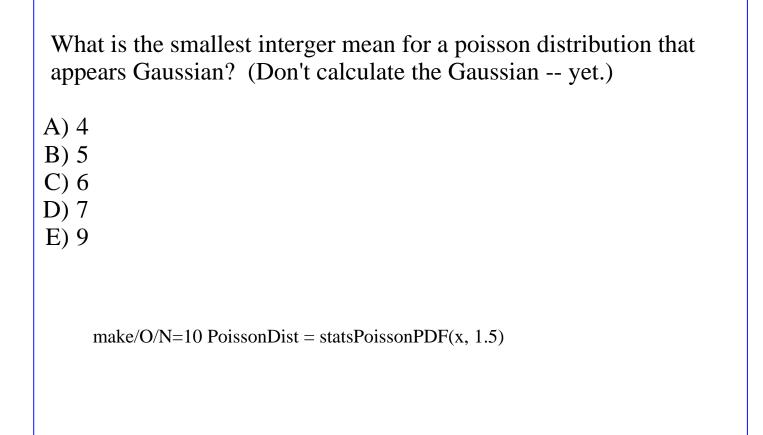
A radioactive sample is monitored and undergoes an average of 0.75 decays/min.

What is the probability of observing 2 decays in 2 minutes?

(You are encouraged to use Igor to solve the problem.)

I... A) think I have a math problem b) " an Igor problem c) " some other problem c) " J. Think the got it. A) 0.19 B) 0.25 C) 0.27 D) 0.32 E) 0.44

6) Mink the got it. approaches print stats Poisson Pdf (1, 0.75) => doesn't match the answer options (2, 1.5) => 6.25 → (2, 0.75) => cloesnit match



Standard deviation of the Poisson distribution

Opoiss = TU

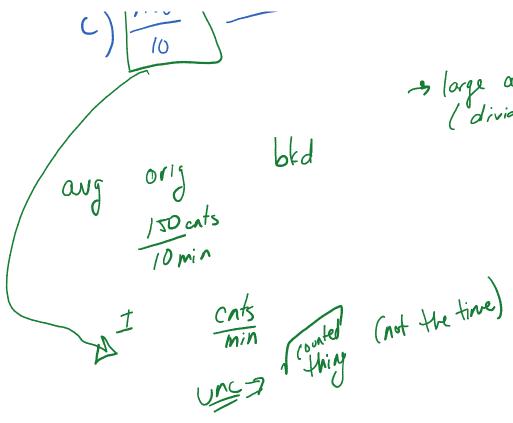
, of a distribution

Not the uncertainty of the counting, but rather the variation due to randomness. A radioactive sample is monitored and the average decay rate is measured as 150 decays in 10 minutes. A measurement of the background radiation is measured for 3 minutes and detects 12 decay events.

Find the average rate and uncertainty of decays from the source.

10 X 10 X 10 X 10 X 10 X 10 X A) I have an answer I'm happy with 150 cnts - 12 cnts 15 - 4 B) I have an answer I'm not guile happy with = 11 cnts/min C) Still working D) Stuck A) I got this B) didn't What about uncert? Ly prop. NZ()²⁷ What is une. in each? A TISP TY 150 mm B NISD TIZ Support: 0= TA support: Toylor did Way TI50 V12

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way -> large and of time (divide by total #)