

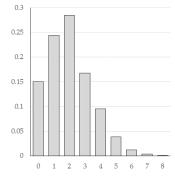
Part 9.1: Calculate the Mean for a Poisson Distribution

The only other thing that you may need to do is calculate the mean. If we use the example on the right which is a binomial distribution, the number of trials is 4, and to work out the mean we can use it like a discrete variable.

 $\mu = 0 \times 0.25 + 1 \times 0.35 + 2 \times 0.25 + 3 \times 0.1 + 4 \times 0.05 = 1.35$

For the binomial distribution we also know that $\mu=n\pi$.

If n = 4 and $\mu = 1.35$ so to work out π we get $\pi = 1.35 \div 4 = 0.3375$



The other thing we sometimes might need to do is work out the mean for a Poisson distribution.

To do this, because the Poisson keeps going on



