Math 153 - Quiz 8

October 26, 2017

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (4 points) In a certain town, 47% of the children dress as vampires on Halloween.

   (a) In a random sample of 20 children, what is the expected number of vampires?

   (b) In a sample of 20, what would be an unusally large number of vampires? Show work to justify your reasoning.

2. (6 points) A certain YouTube video gets viewed 43 times per hour on average.

   (a) In any given hour, what is the probability that the video gets viewed exactly 40 times?

   (b) In any given hour, what is the probability that the video gets viewed fewer than 40 times?

   (c) In any given hour, what is the probability that the video gets viewed at least 45 times?