

1. Suppose that a website gets visited at a rate of 4 per minute. Determine the following distributions including the parameters.
 - (a) The distribution of the number of hits the website has in an hour.
 - (b) The distribution of the number of hours in the next 4 hours that there are at least 200 hits.
 - (c) The distribution of the amount of time before the first hit.
2. Suppose a batch of chocolate chips cookies have on average 3 chips per cookie. Determine the following distributions including the parameters.
 - (a) The distribution of the number of chips in a given cookie
 - (b) The distribution of the number of chips with at least 6 chips in a batch of 30 cookies.
 - (c) The distribution of the number of cookies you have to go through before you get one with that has at least 6 chips.