

## Amusement Park

0 points possible (ungraded)

Some amusement parks in Florida are designed to have several regions that are accessible only by having a ticket for a specific time slot. This strategy not only helps boost ticket sales for the park, but also helps to regulate the volume of visitors at any given time. One of the popular visitor sites is *Future Land*, or a futuristic region that features rides with robots and rocket ships. The number of visitors in this region follows a discrete uniform distribution ranging from 801 to 1300.

Given this distribution, what is the probability that the number of visitors in this region will be in the 900s (from 900 to 999)?

Enter your answer in decimal form using three decimal places. For example, if your answer is 23.24%, you should enter .232 in the box below.

What is the probability that Future Land will have less than 1150 visitors?

Enter your answer in decimal form using three decimal places. For example, if your answer is 23.24%, you should enter .232 in the box below.

You have used 1 of 3 attempts

Correct

Sari

## -Sari Store

0 points possible (ungraded)

A sari-sari store is a small convenience store owned and managed by a regular homeowner in the Philippines. These traditional convenience stores are very informal and sell consumer products in small quantities. Although these sari-sari stores can serve several households within an area, their daily sales tend to be slow. Some sari-sari stores open as early as 5 AM and close around 7 PM. The number of customers visiting a sari-sari store in a single day can be described by a Poisson distribution with a  $\lambda = 5$ .

Given this distribution, what is the probability that 4 customers that will stop by a single sari-sari store today?

Enter your answer in decimal form using three decimal places. For example, if your answer is 23.24%, you should enter .232 in the box below.

What is the probability that a sari-sari store will have more than 6 customers?

Enter your answer in decimal form using three decimal places. For example, if your answer is 23.24%, you should enter .232 in the box below.

You have used 1 of 3 attempts

---

Correct