

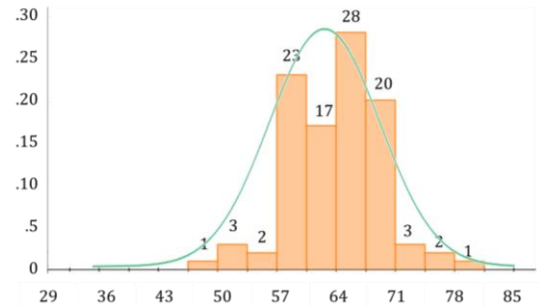
2.2.A Density Curves

The density curve follows the shape of a _____.

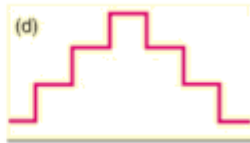
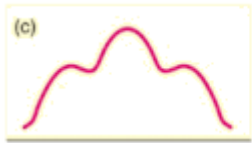
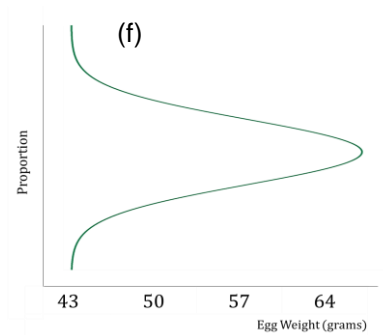
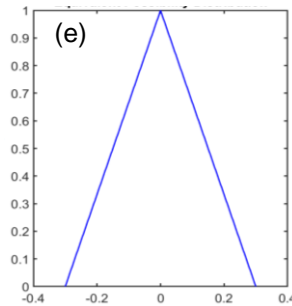
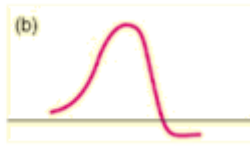
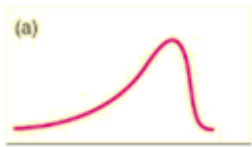
There are only 2 properties that you need to remember for density curves:

- The area under the curve is always _____.
- The curve must lie _____ or _____ the x-axis.

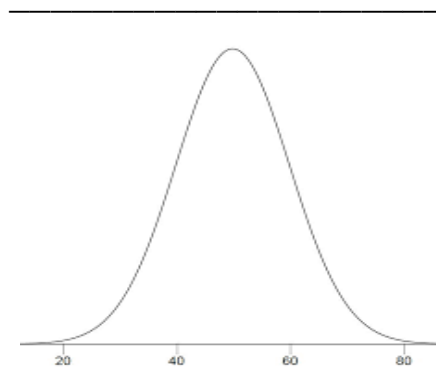
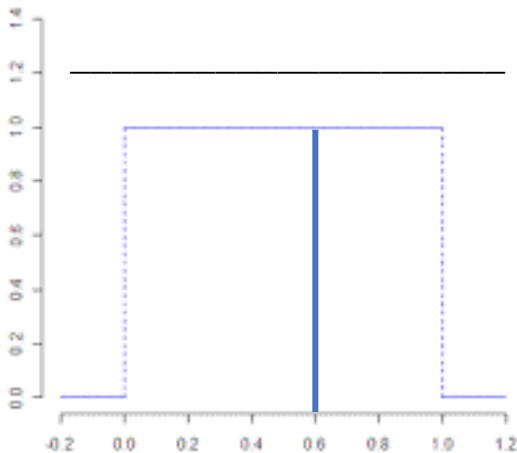
Distribution of Egg Weights by Relative Frequency at Pete and Gerry's Eggs



Which of the following curves is not a density curve?



What are the names of these two common density curves?



For the uniform density curve above, what is the area for the data value 0.6? _____

2.2.A Density Curves

The normal curve is described by three terms:

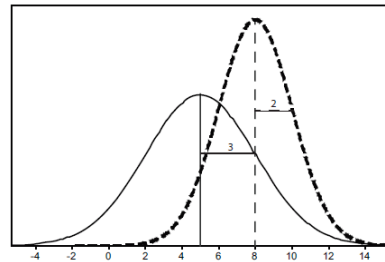
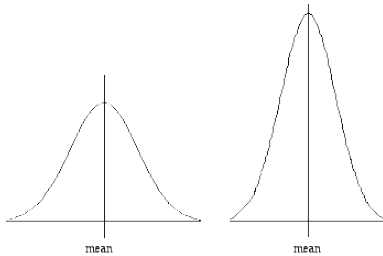
- _____-shaped.
- _____
- _____

The normal curve is completely characterized by its _____(____) and its _____(____).

The Empirical Rule is also known as the _____-_____-_____ Rule. It is a good starting point for determining percentiles. This rule tells us that:

- Around 68% of the data will fall within _____ standard deviation of the mean.
- Around 95% of the data will fall within _____ standard deviations of the mean.
- Around 99.7% of the data will fall within _____ standard deviations of the mean.

What statistical measure changed in each pair of graphs?



Name three things in nature that follow a bell-curve?

What is the difference in number of peaks of a normal curve and a density curve?

What is the formula for calculating a z-score?