

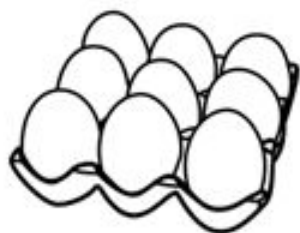
**WHILE
YOU ARE
WAITING
FOR
CLASS
TO
START ⇒**

Get a copy of the advance organizer and activity for normal curves at:

- 1 [Tinyurl.com/normalcurveorganizer](https://tinyurl.com/normalcurveorganizer)
- 2 [Tinyurl.com/normalcurveactivity](https://tinyurl.com/normalcurveactivity)

Quizzarium Rules:

- This is **LOW TECH**.
- Two teams - **Team Here** (*in-class*) and **Team There** (*remote*).
- Limit: **5 minutes**, as many questions as we can get in.
- Each team takes a turn to answer a question on normal curves.
- The scorer will tally the results (*No arguing with the scorer allowed*).
- **Prize** - Bag of Ring Pops (**NO EATING AT SCHOOL, BRING HOME PLEASE!**)



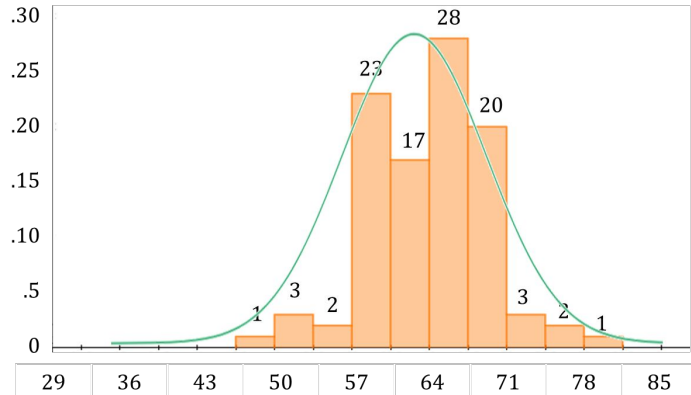
Normal Curves

Quizzarium

The density curve follows the shape of what type of graph?

The density curve follows the shape of what type of graph?

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



There are only two properties that you need to remember for density curves.
Name one property.

The area under the curve is always _____.

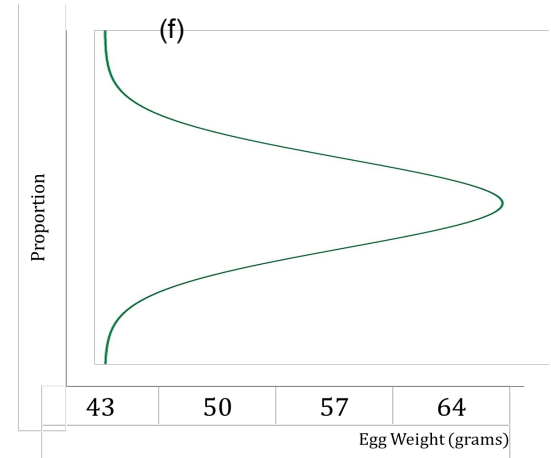
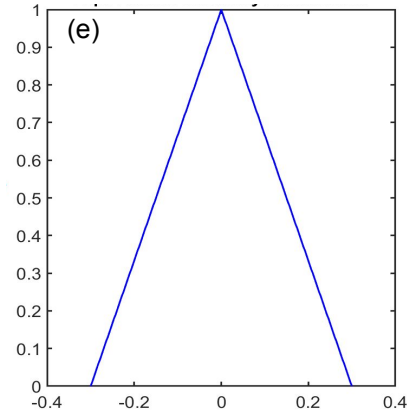
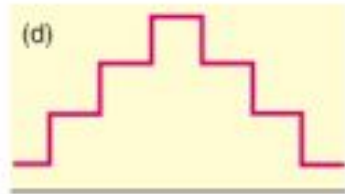
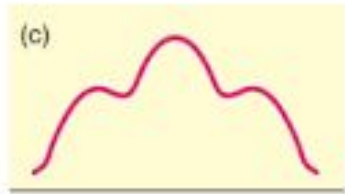
?

There are only two properties that you need to remember for density curves. Name the other property.

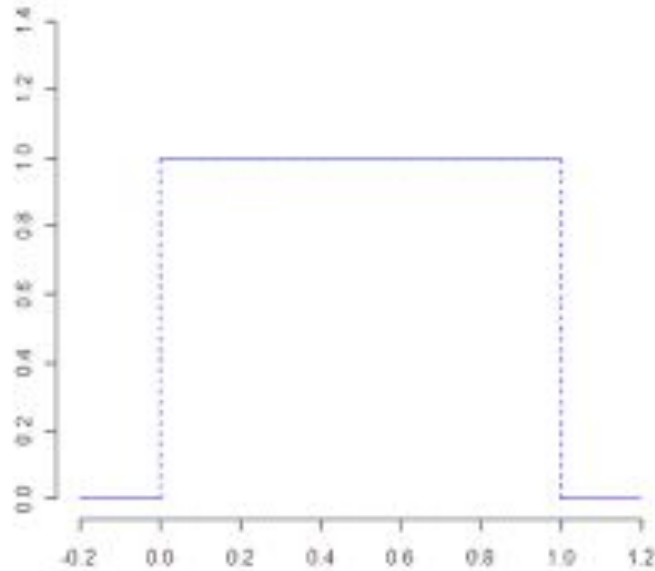
The area under the curve is always _____.

The curve must lie _____ or _____ the x-axis.

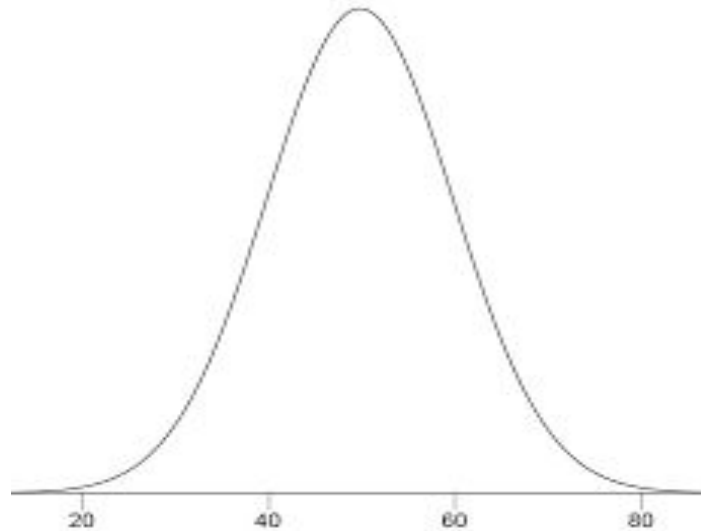
Which of the following curves is not a density curve?



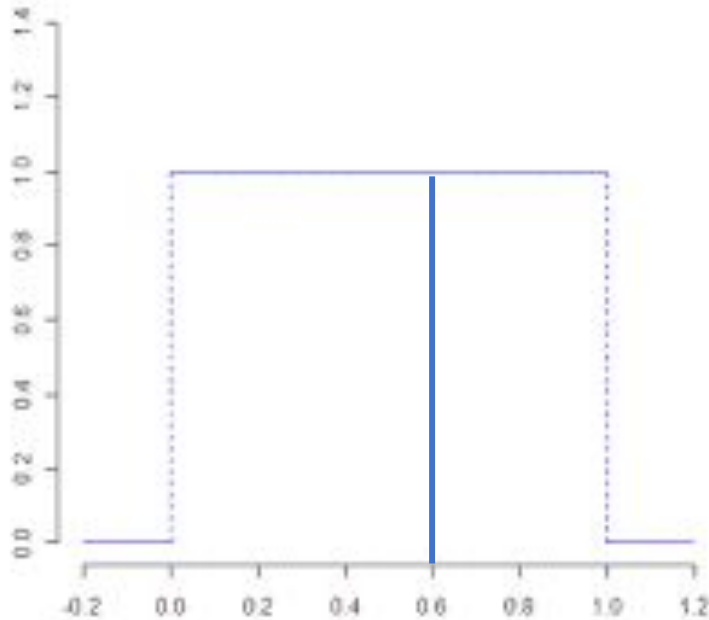
What is the name of this common density curve?



What is the name of this common density curve?



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



The shape of the normal curve is described by three terms. Name one.

?

?

?

The shape of the normal curve is described by three terms. Name another.

?

?

?

The shape of the normal curve is described by three terms. Name the last.

?

?

?

The shape of the normal curve is described by three terms. Name the last.

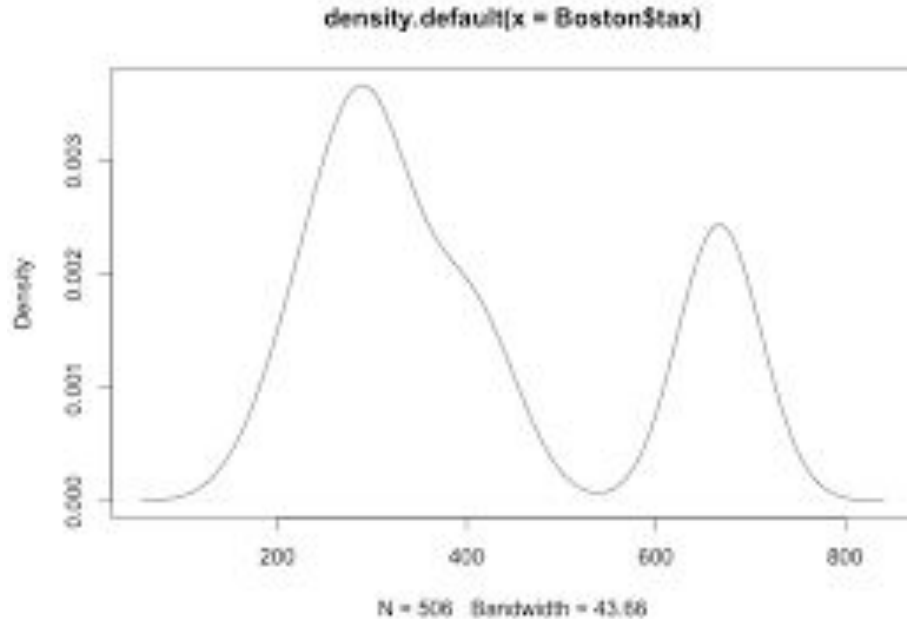
Symmetry

Single-peaked
(unimodal)

Bell-shaped

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

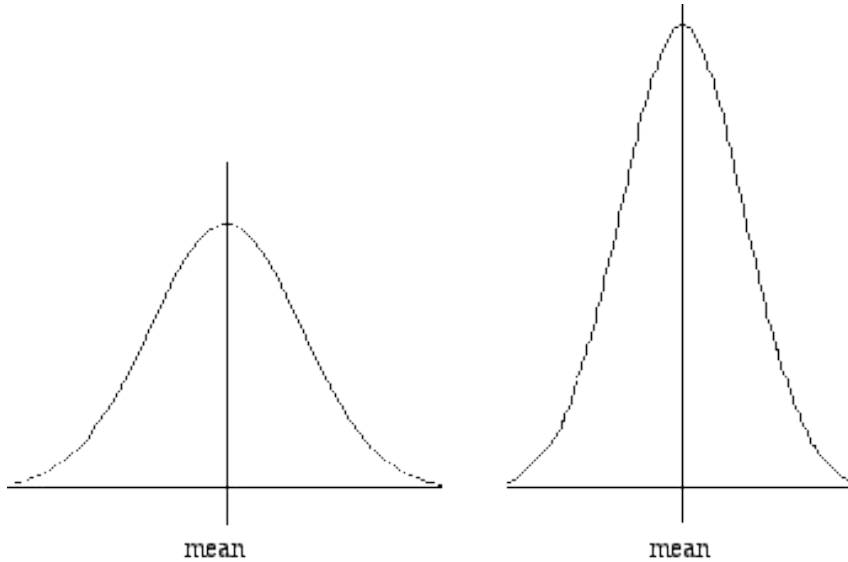
What type of normal curve is this?



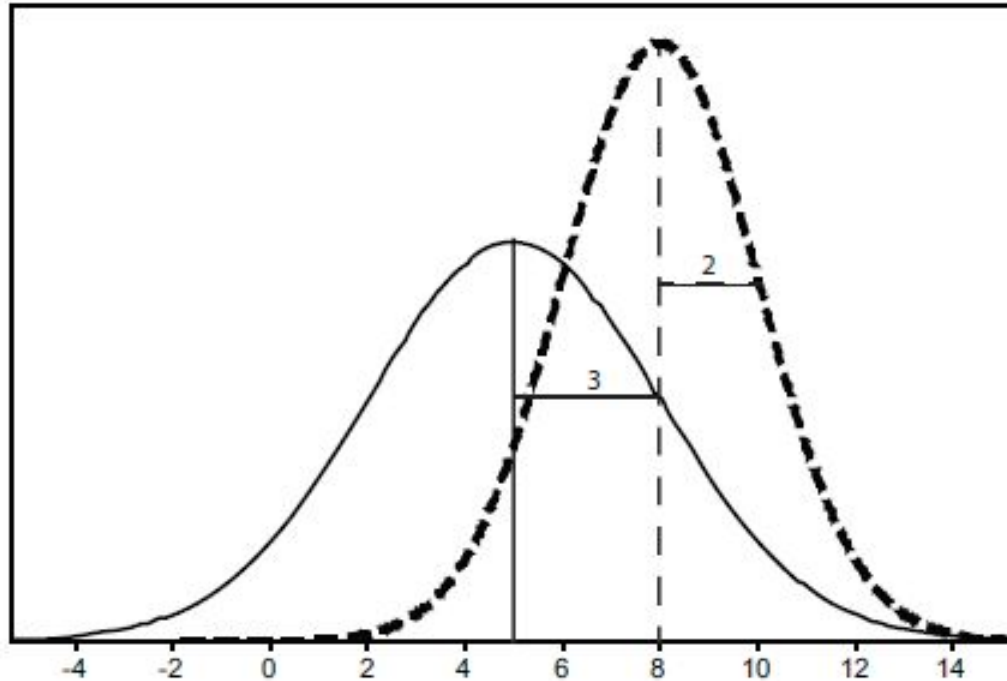
The normal curve is completely characterized by two measures. Name one of them and identify its symbol.

The normal curve is completely characterized by two measures. Name the second and identify its symbol.

What statistical measure changed?



What statistical measures changed?



What is the formula for calculating a z-score?