

What is *normal*?

Parakeet (aka budgerigar)

Heart Rate 250 to 600 beats per minute

Body Temp 105°F to 108.6°F

Hummingbird

Heart Rate 800+ beats per minute

Body Temp 108°F to 111.2°F

What is *normal*?

Canine

Heart Rate 80 to 150 beats per minute

Body Temp 100°F to 102°F

Feline

Heart Rate 110 to 140 beats per minute

Body Temp 100.5°F to 102.5°F

Human

Heart Rate 60 to 100 beats per minute

Body Temp 97.6°F to 98.8°F

Why do mammals have a body temperature around 96°F?

How did they come up with the *normal range*?

by sampling!

go to class heart rate

- If you take a large enough random sample, you will get a *Normal Distribution*.
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- Plotted on a dot plot, or histogram with small enough classes, you will see a normal curve.
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- Used for continuous numerical data
e.g. temperature, volume, time, mg/dl, height
- Not for discrete data

Formula for the normal curve.

$$\frac{e^{-\frac{(x-\mu)^2}{2\sigma^2}}}{\sigma\sqrt{2\pi}}$$

- Properties of the normal curve.
- Mean, median, and mode are equal and located at the center of the curve.
- Symmetric about the mean
- Continuous
- Never touches the x-axis
- Area under the curve = 1.00 or 100%
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Go to Normal.ftm

