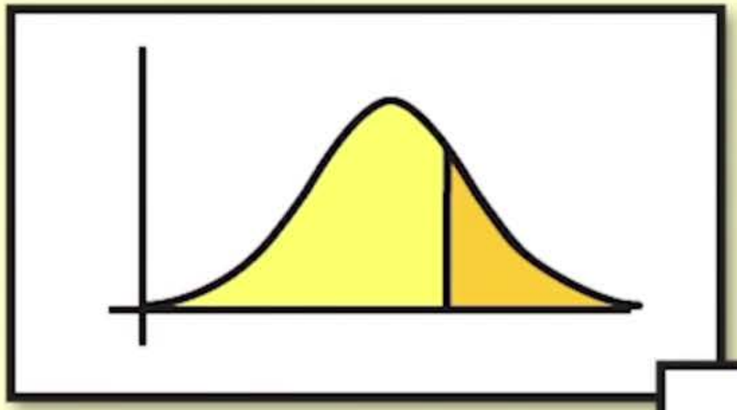
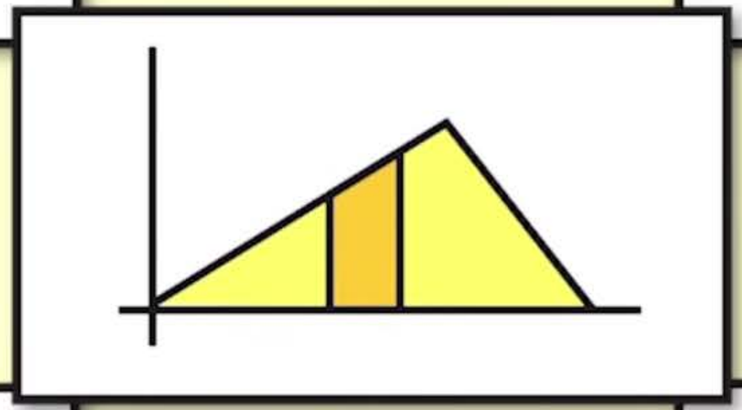
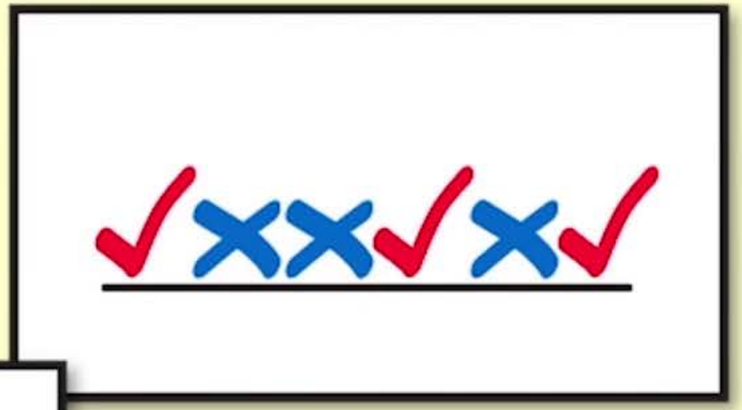
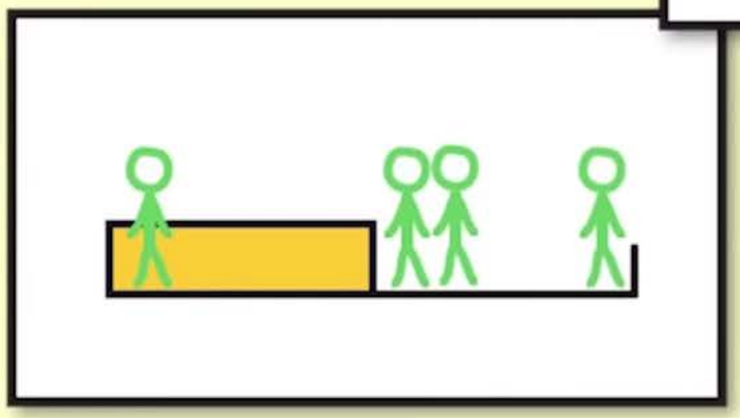
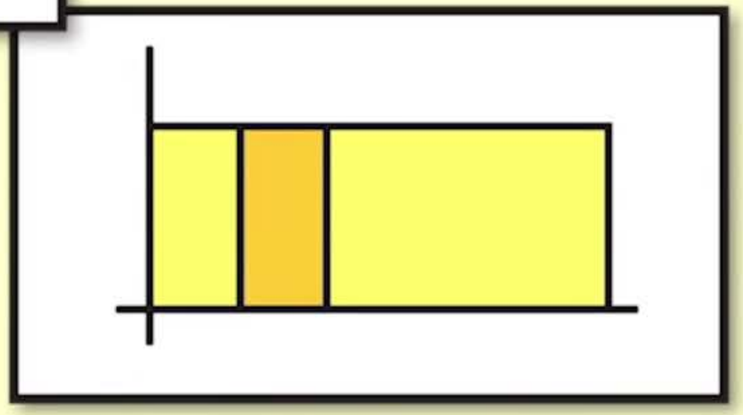










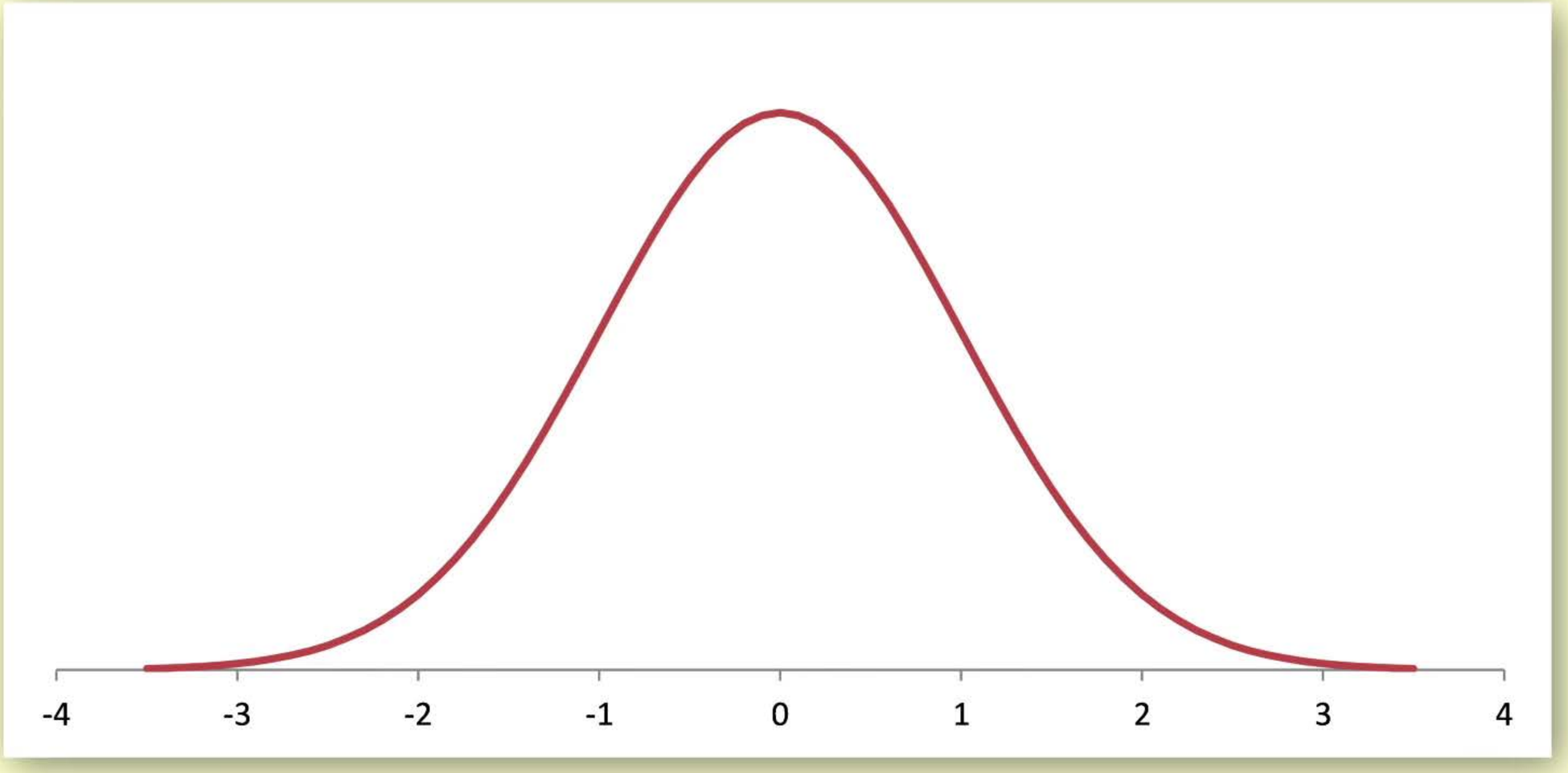
Binomial
distribution

Triangular
distribution

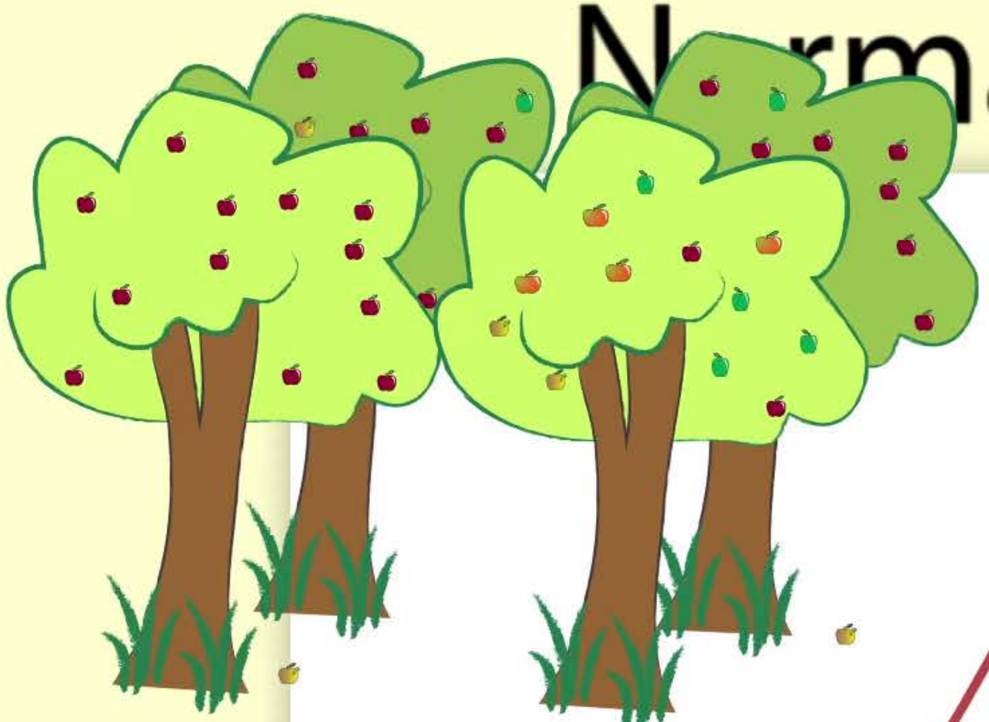
Poisson
Distribution

Uniform
distribution

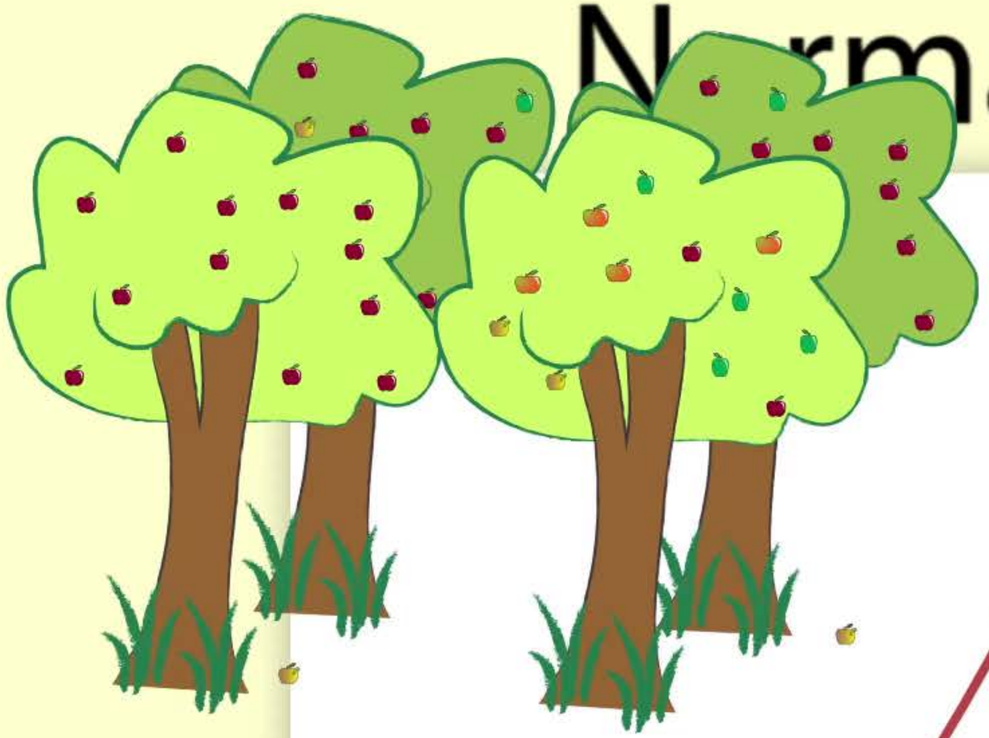
Normal Distribution

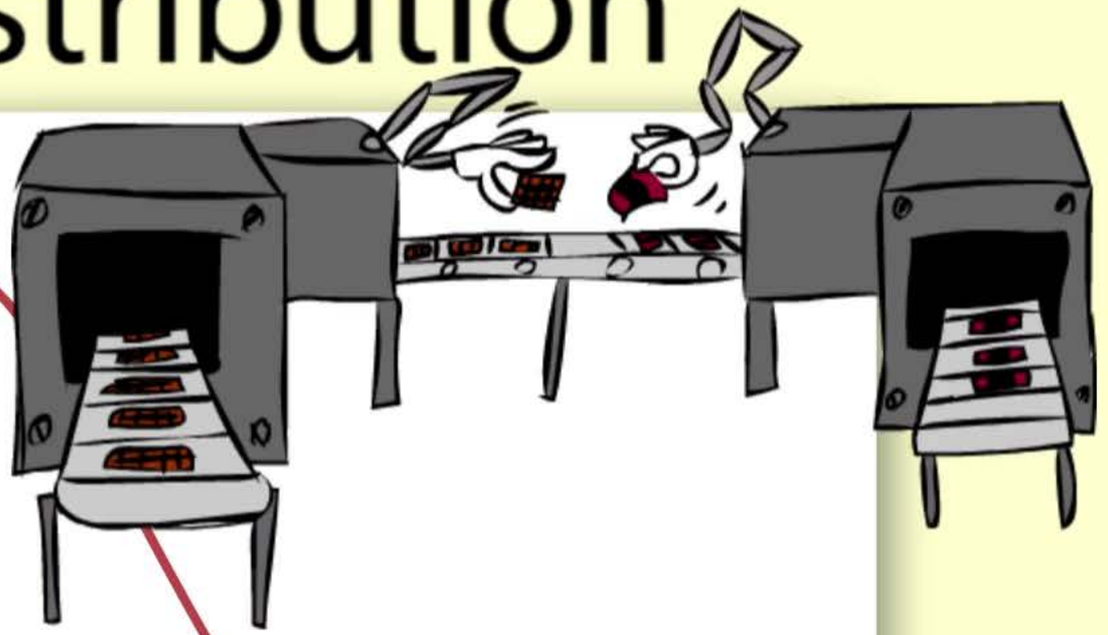


Normal Distribution

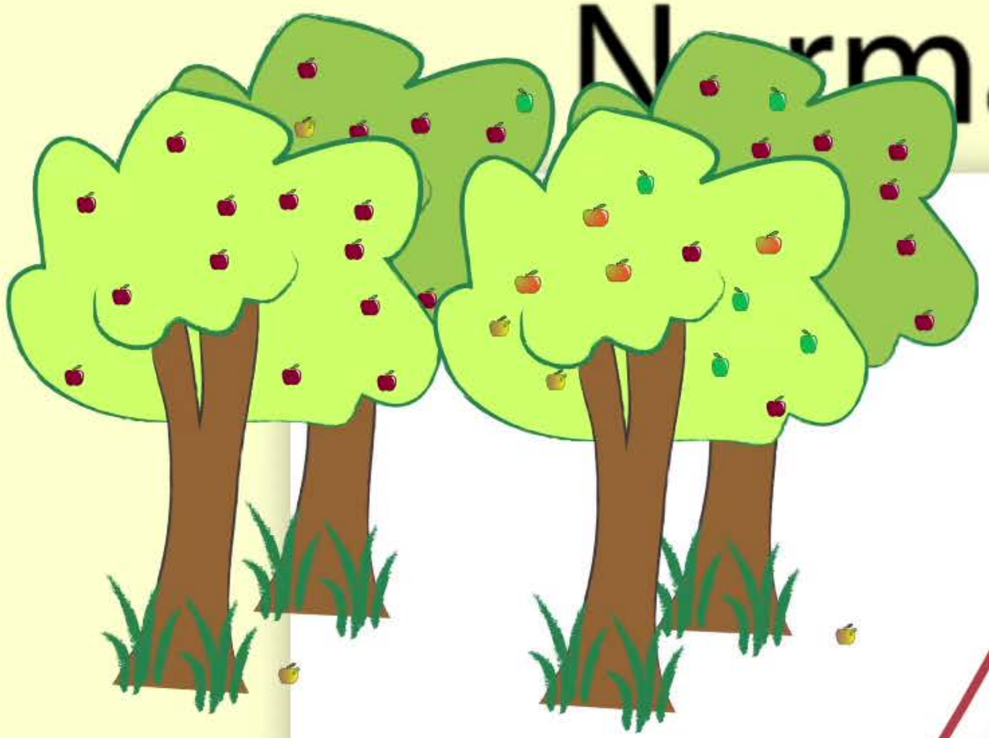


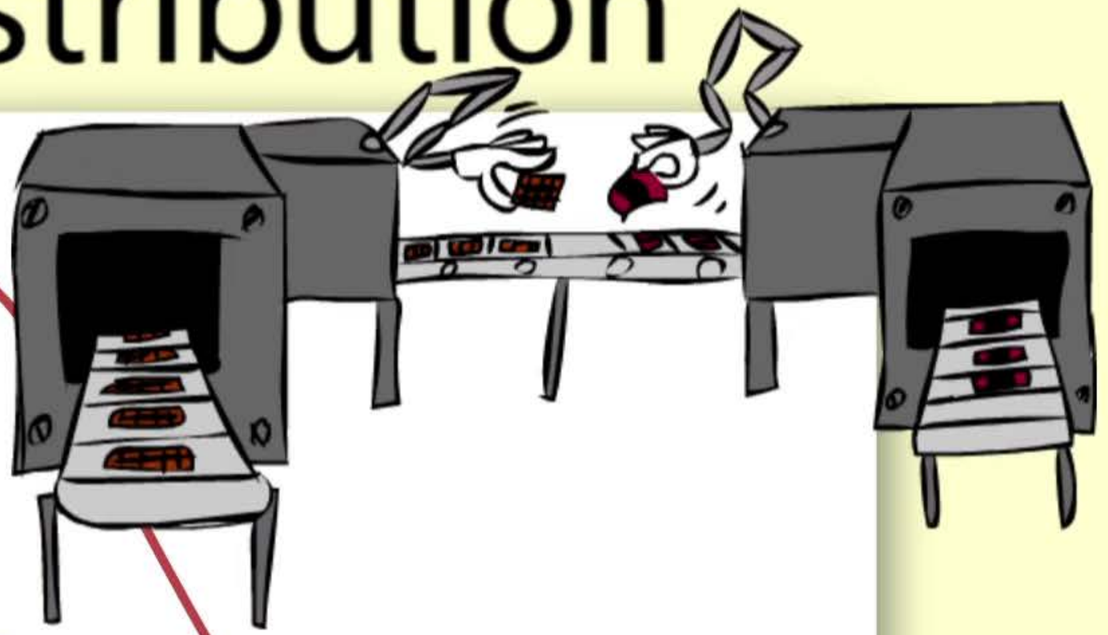
Normal Distribution

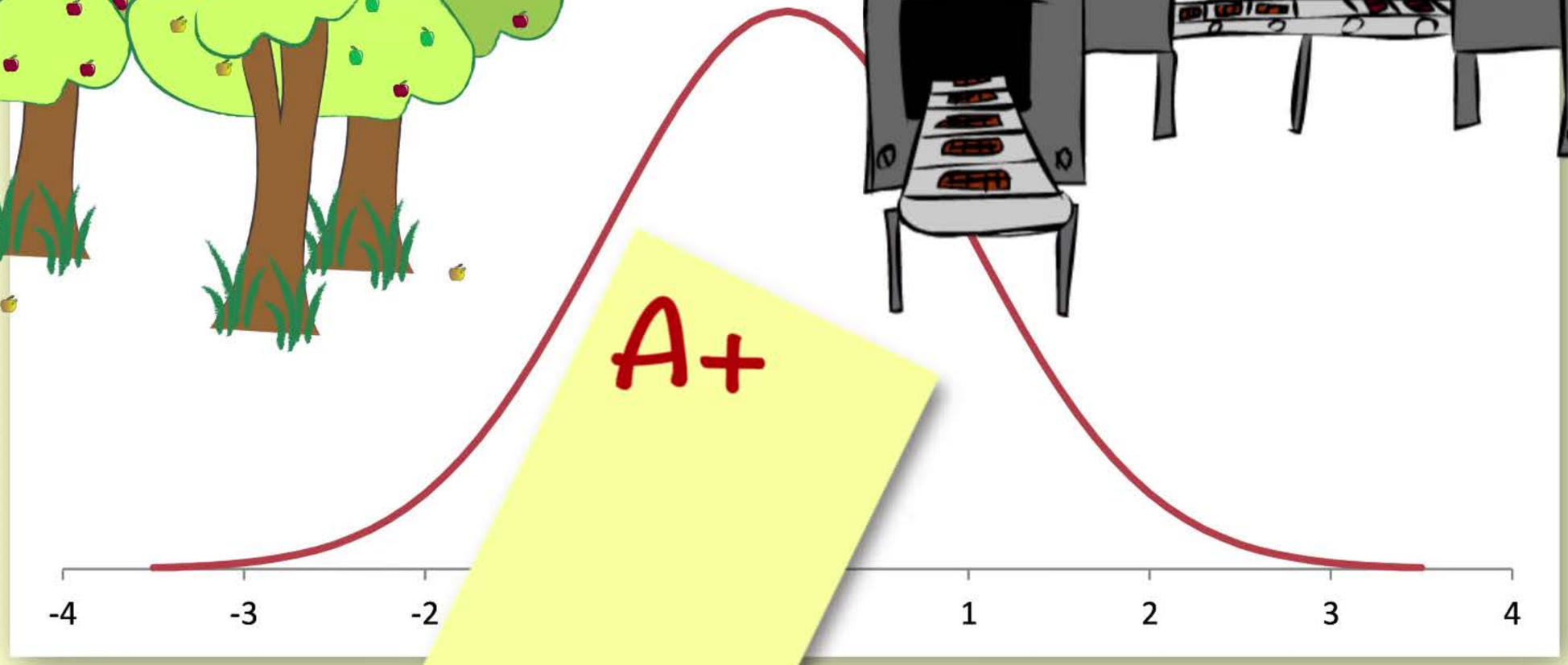




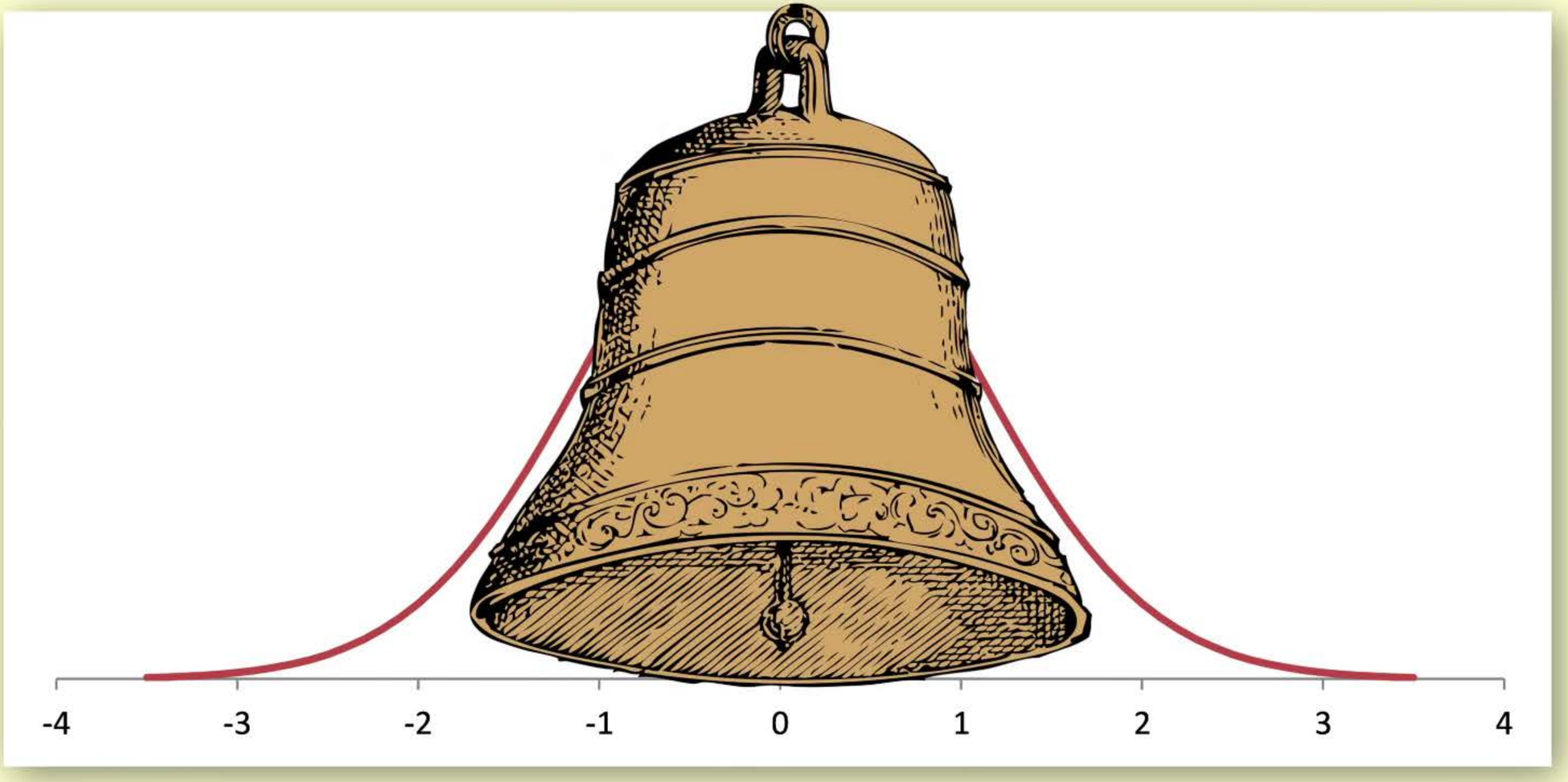
Normal Distribution

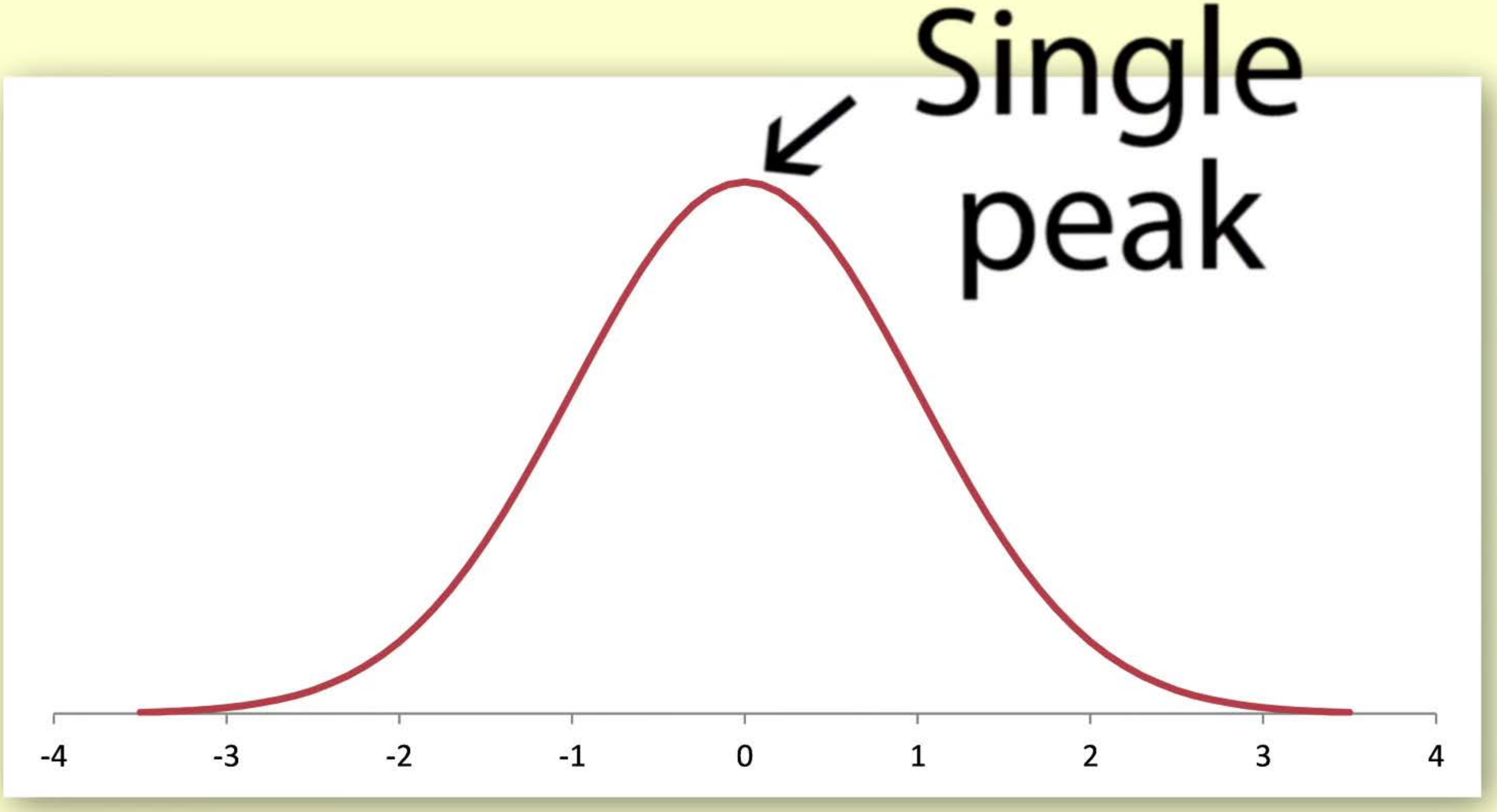


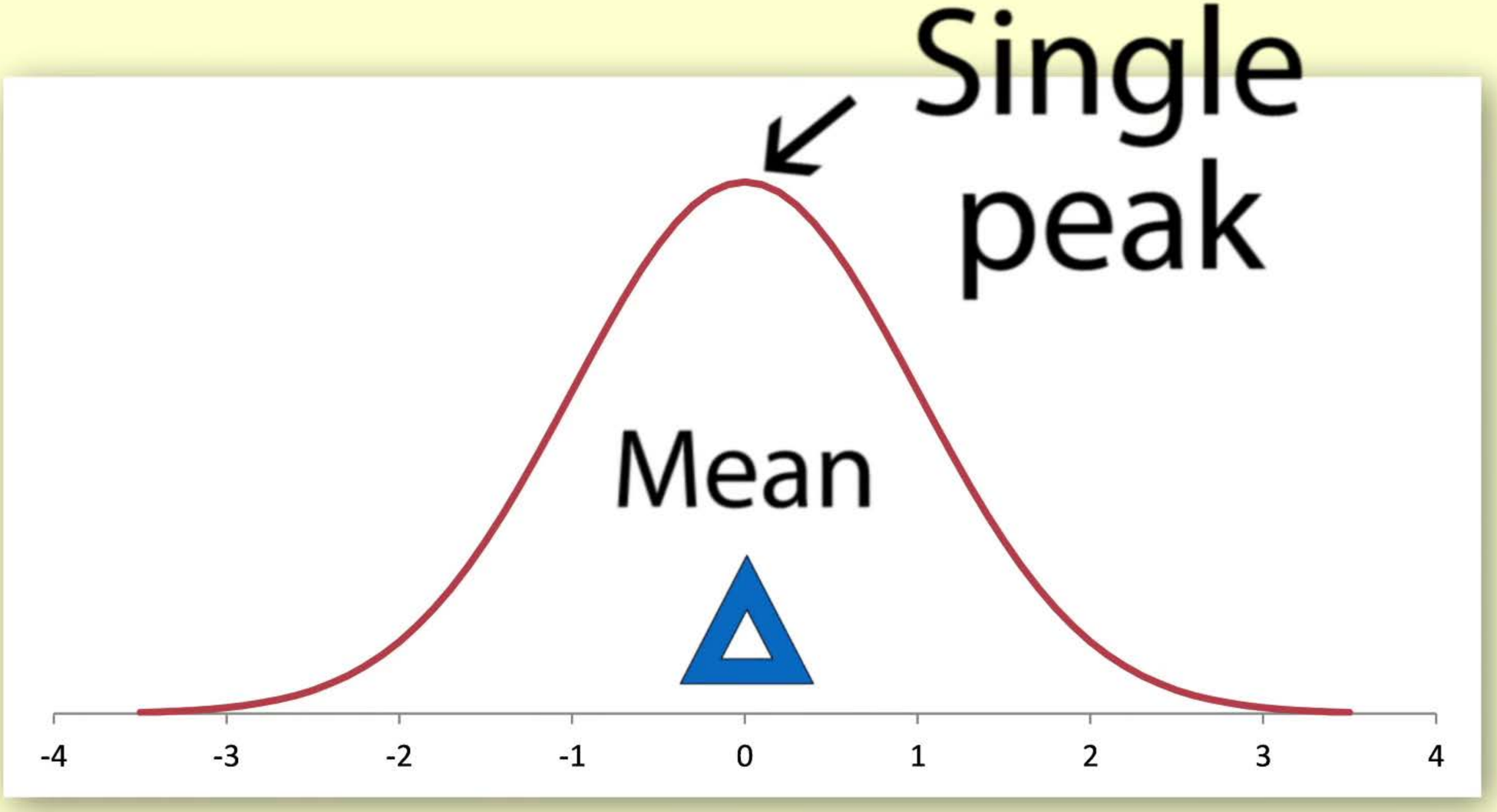




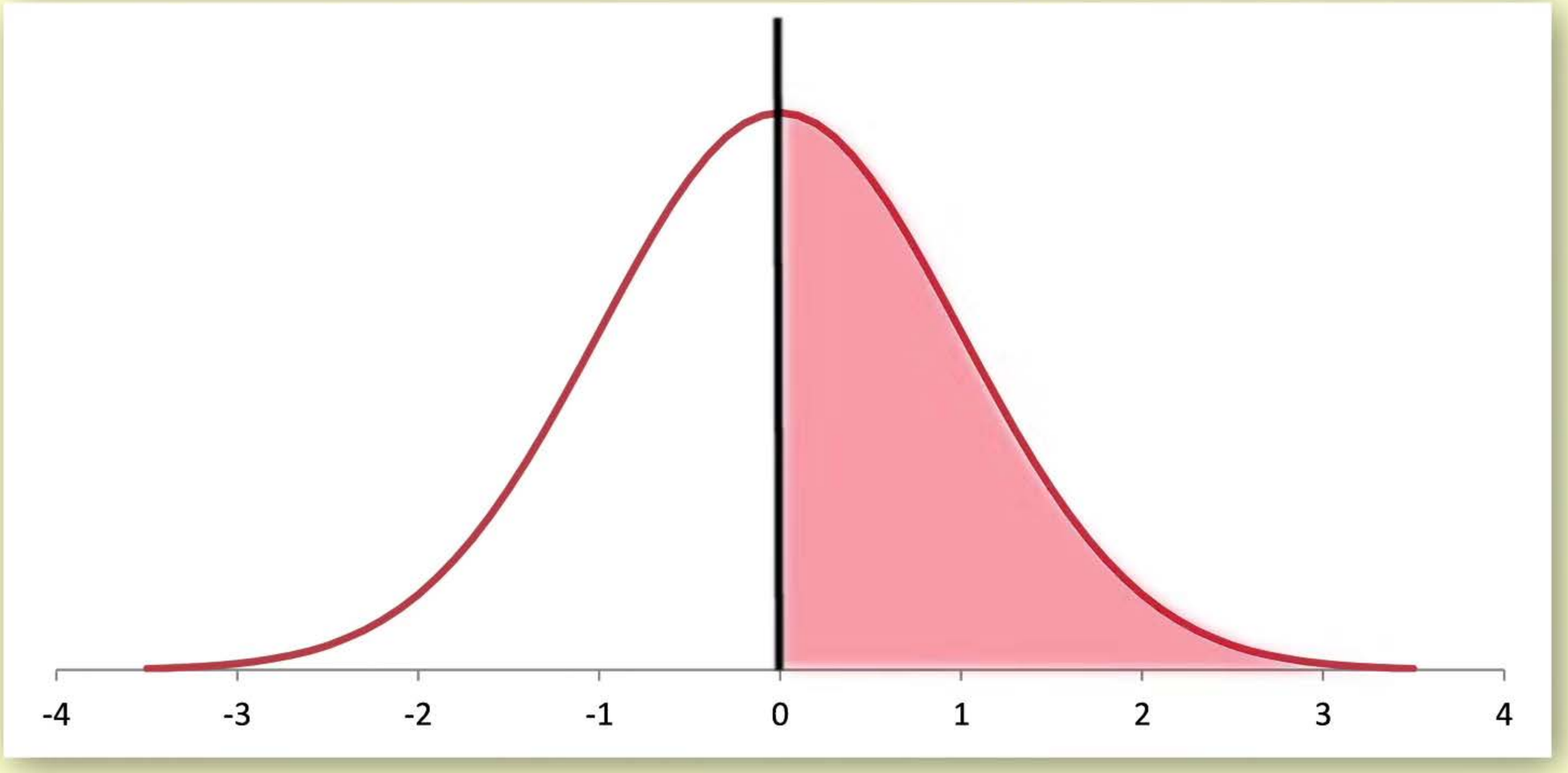
A+


-4
-3
-2
-1
0
1
2
3
4

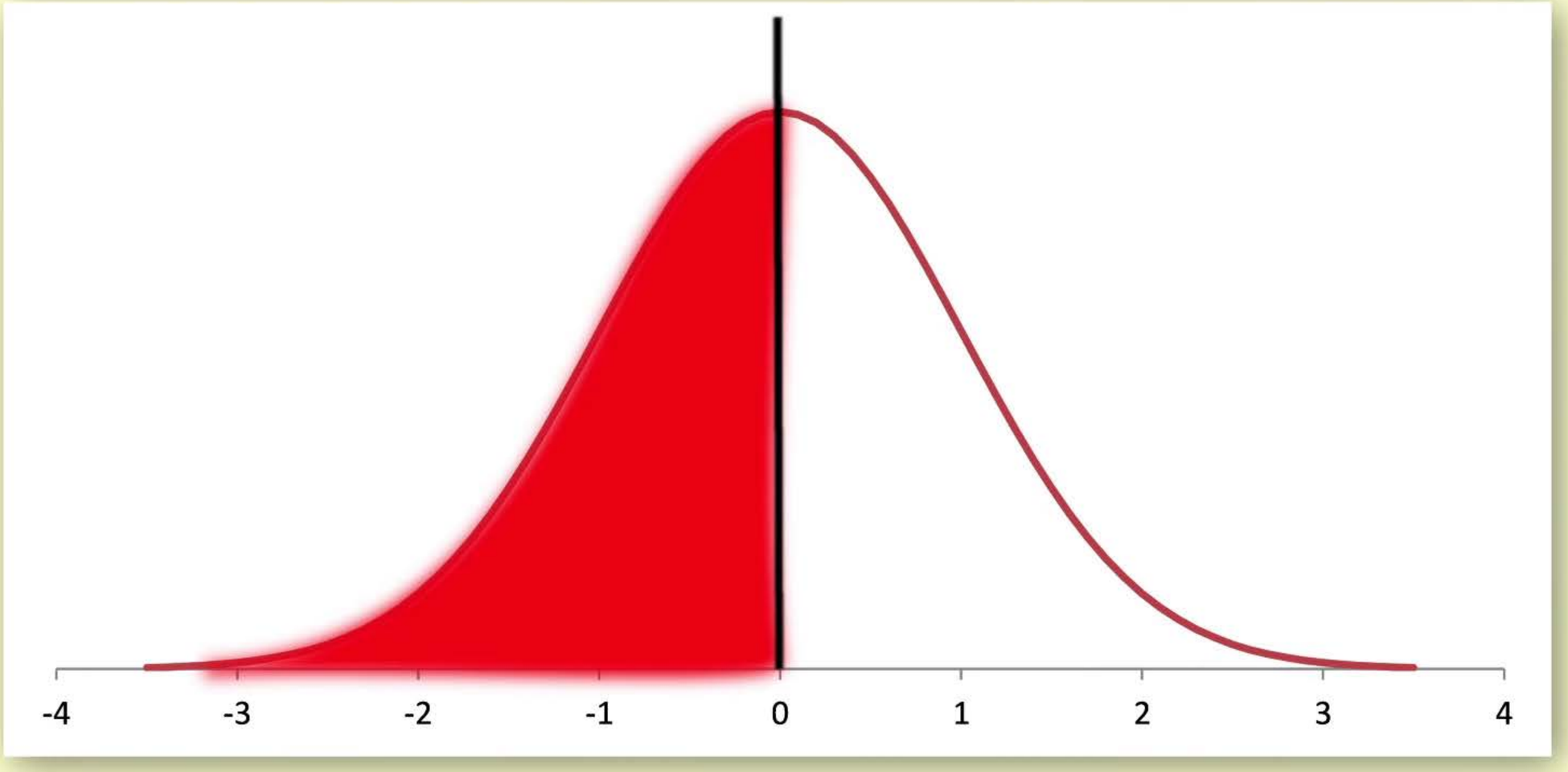

Single peak
-4
-3
-2
-1
0
1
2
3
4

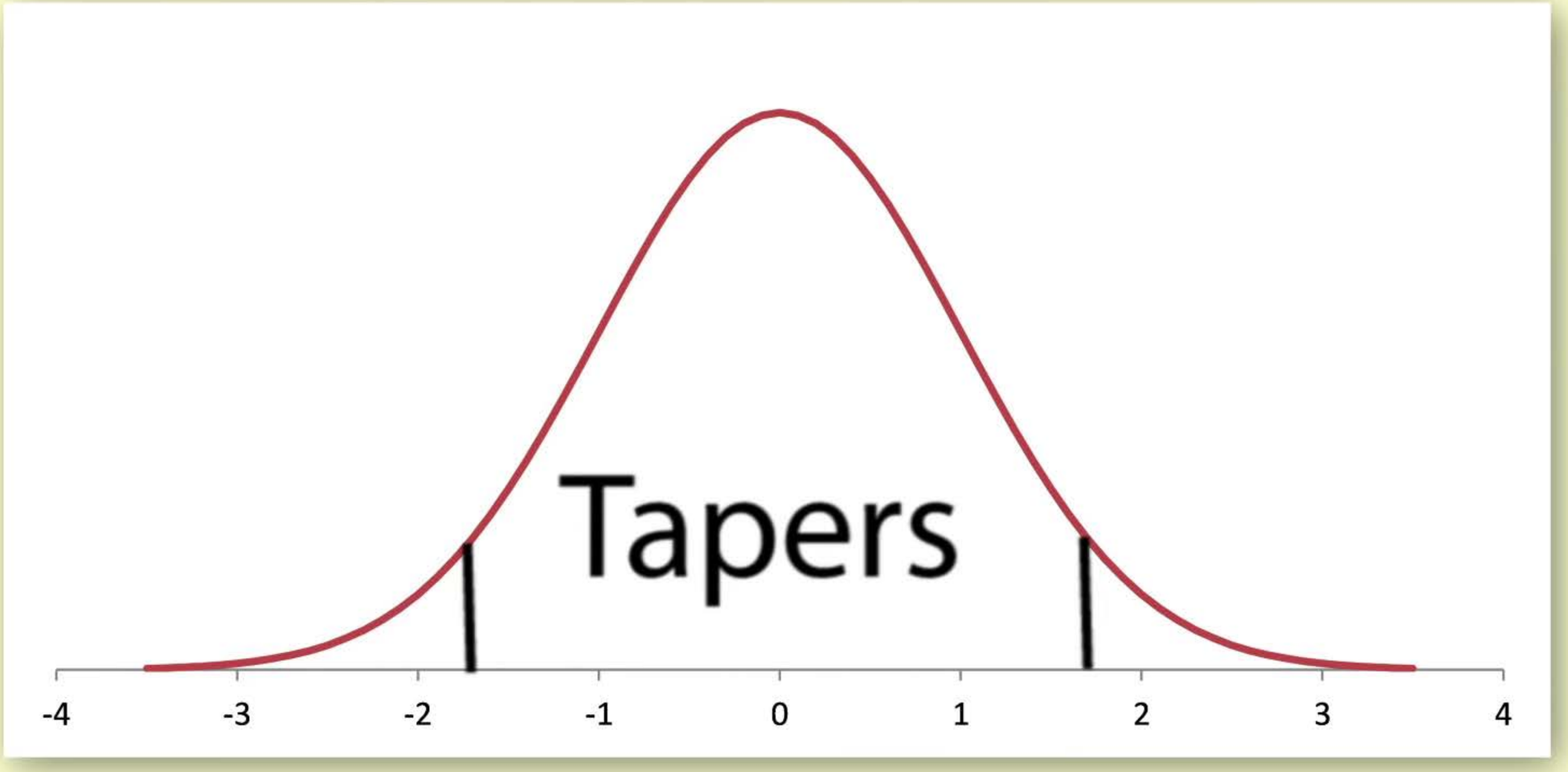

Single peak
Mean
-4
-3
-2
-1
0
1
2
3
4

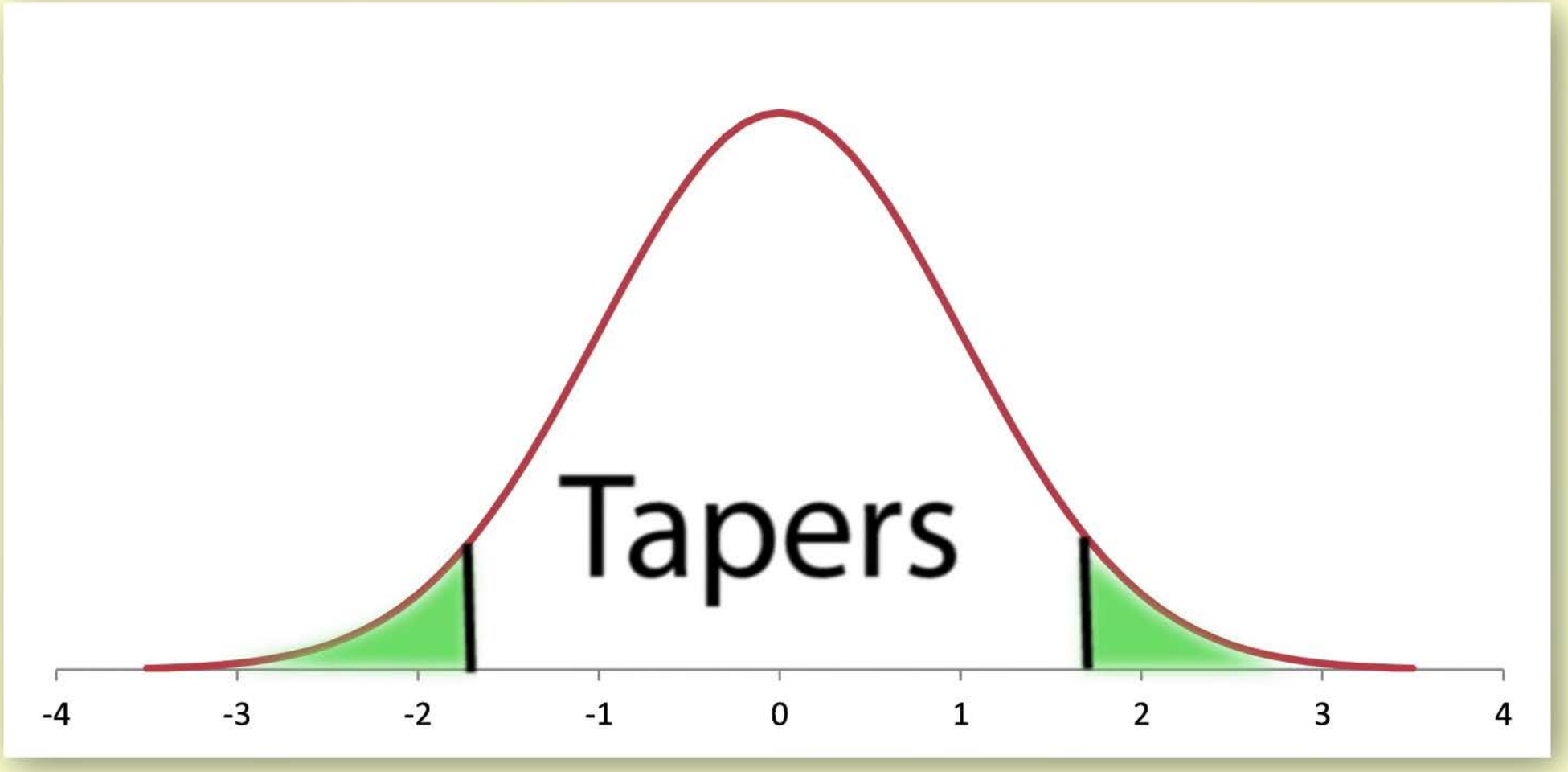
Symmetry

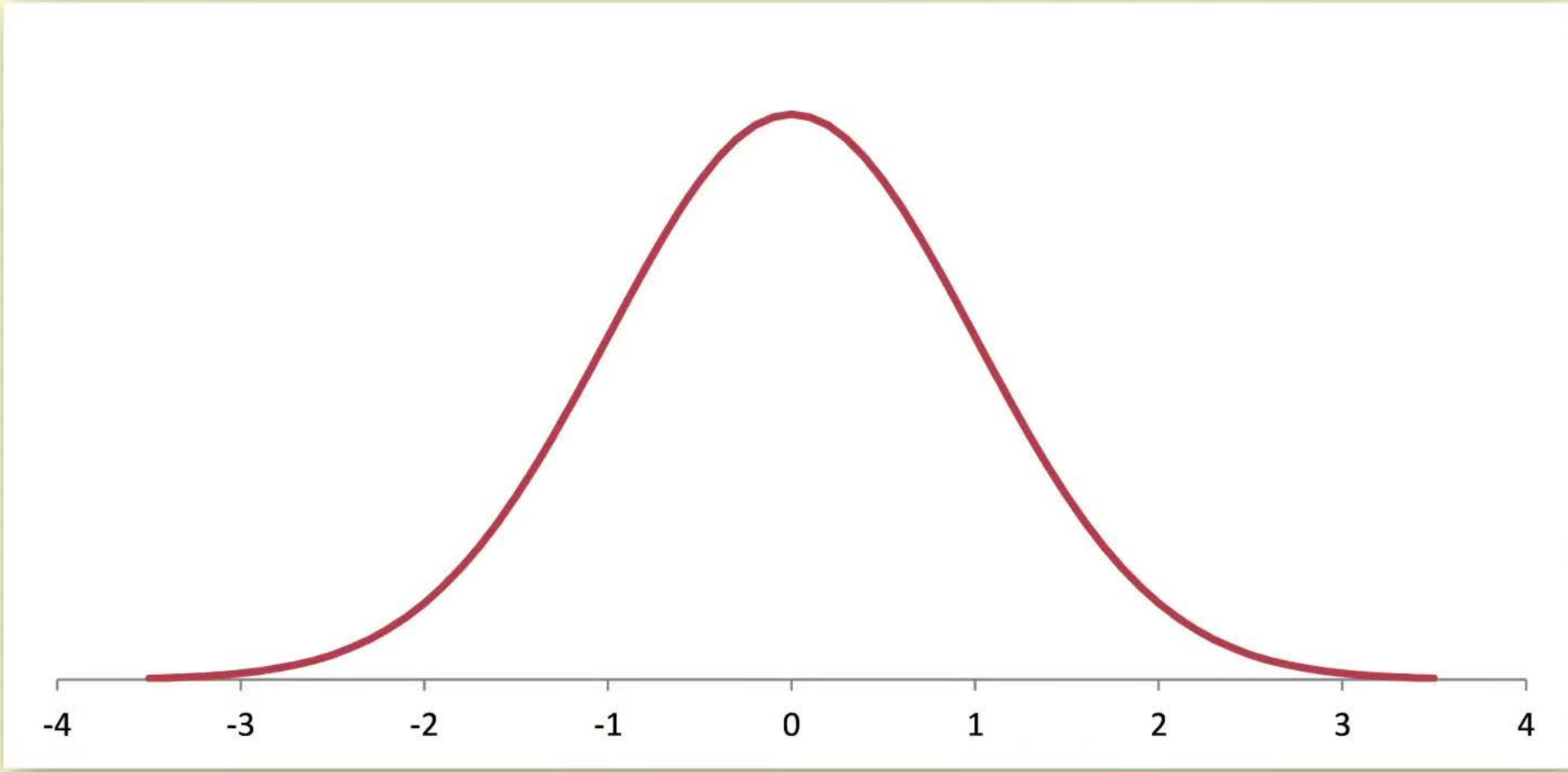


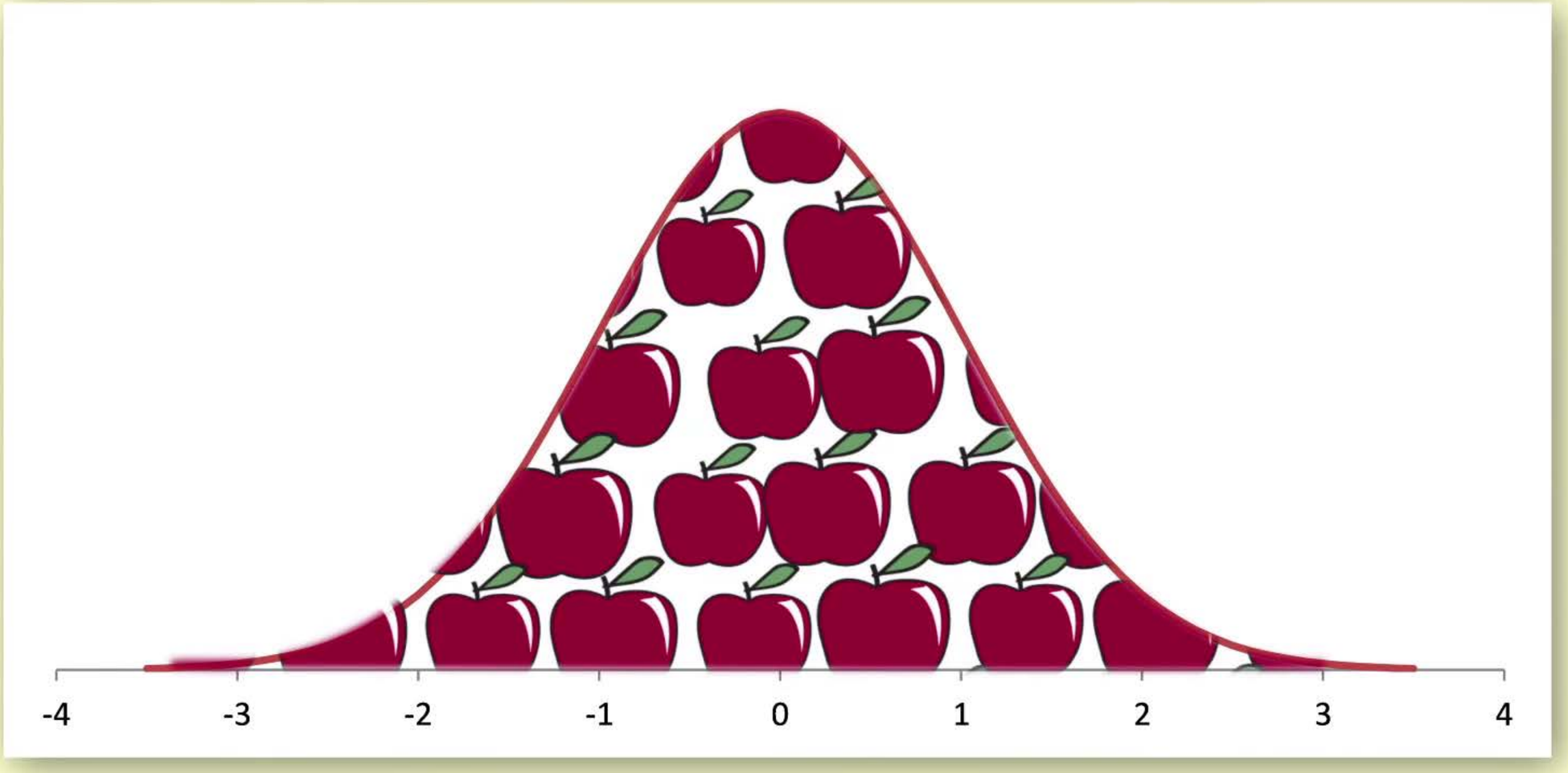
Symmetry



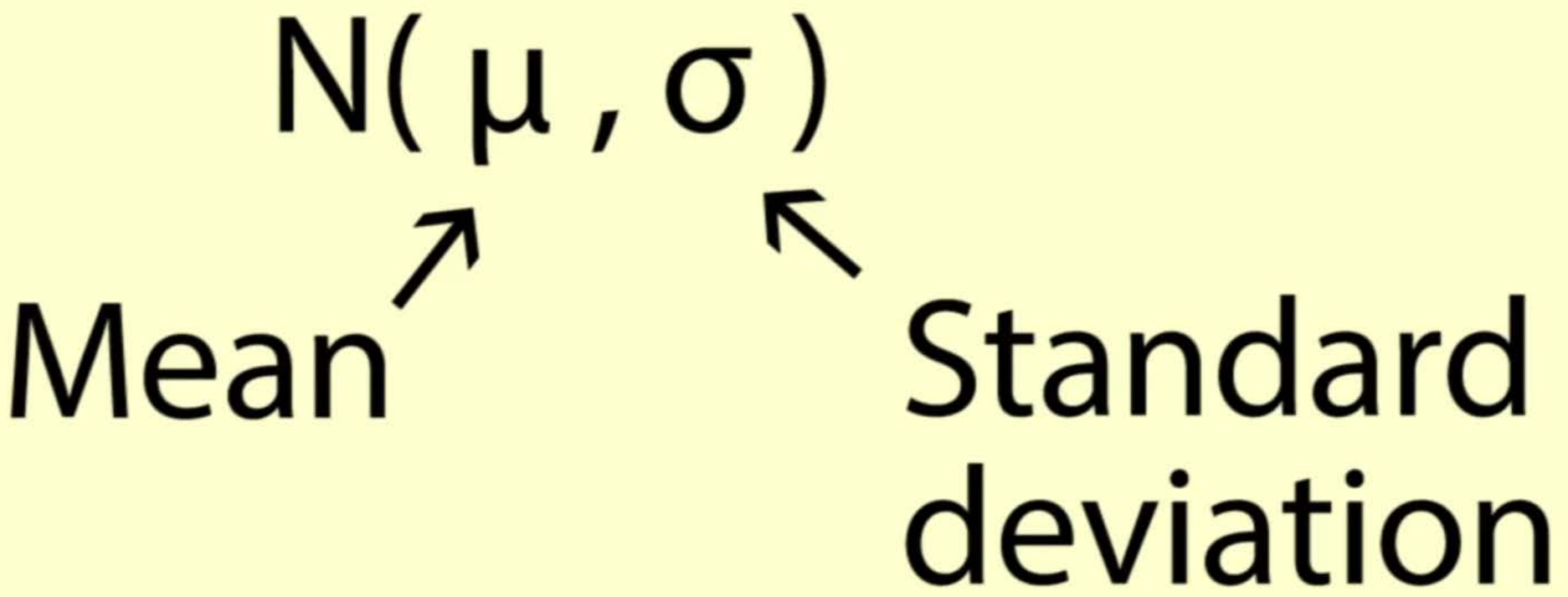

Tapers
-4
-3
-2
-1
0
1
2
3
4


Tapers
-4
-3
-2
-1
0
1
2
3
4

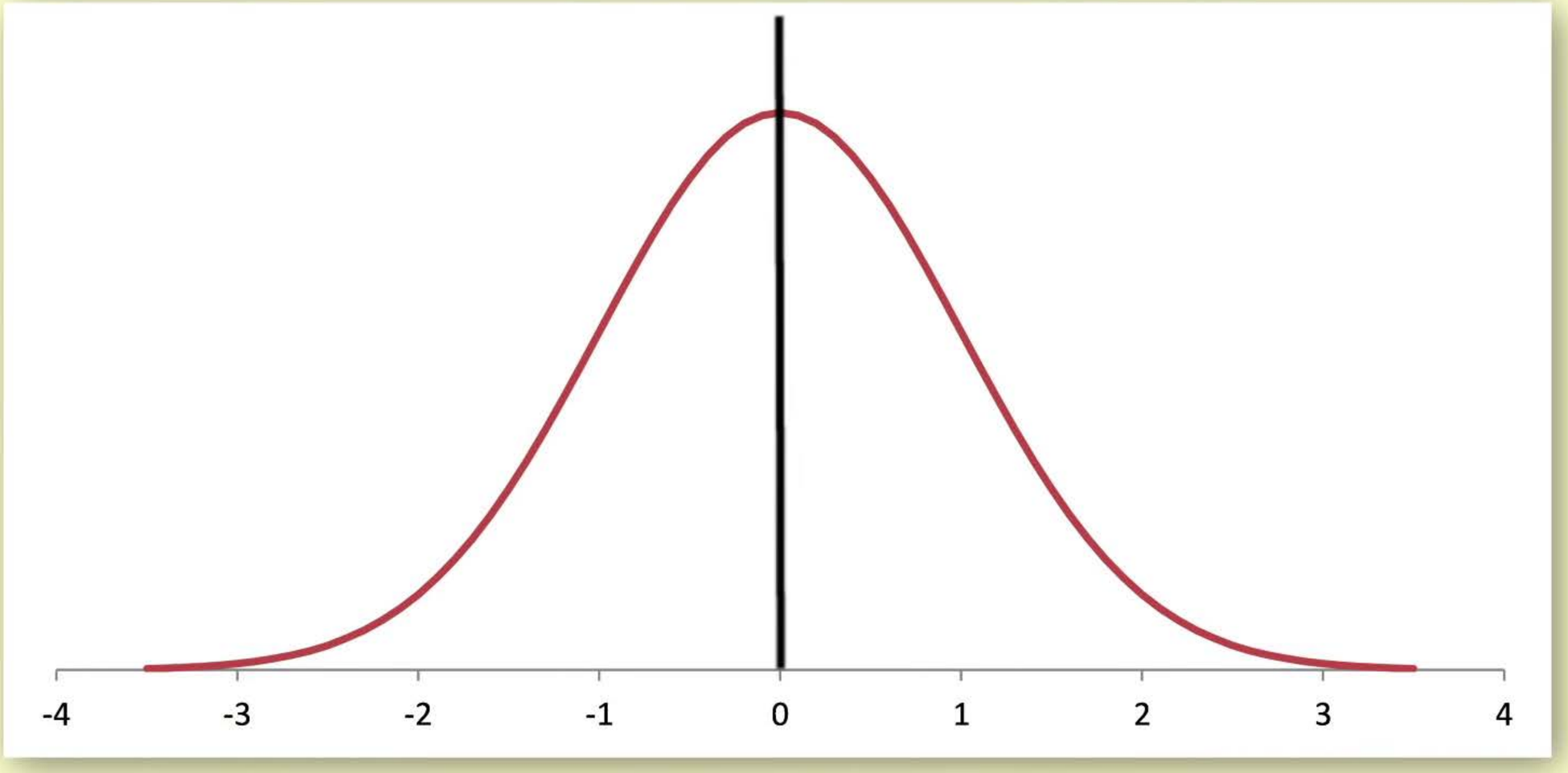

-4
-3
-2
-1
0
1
2
3
4

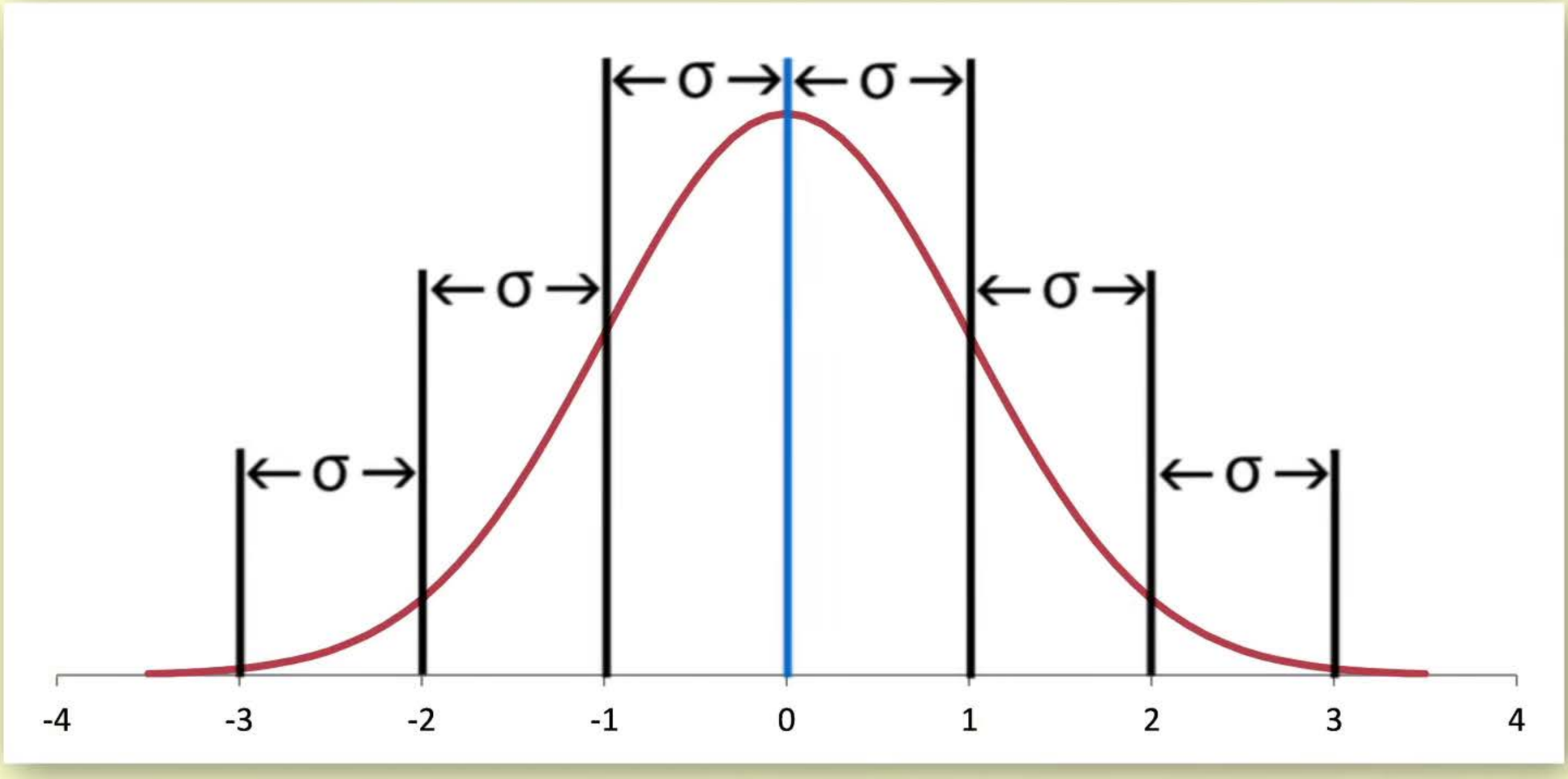

-4
-3
-2
-1
0
1
2
3
4

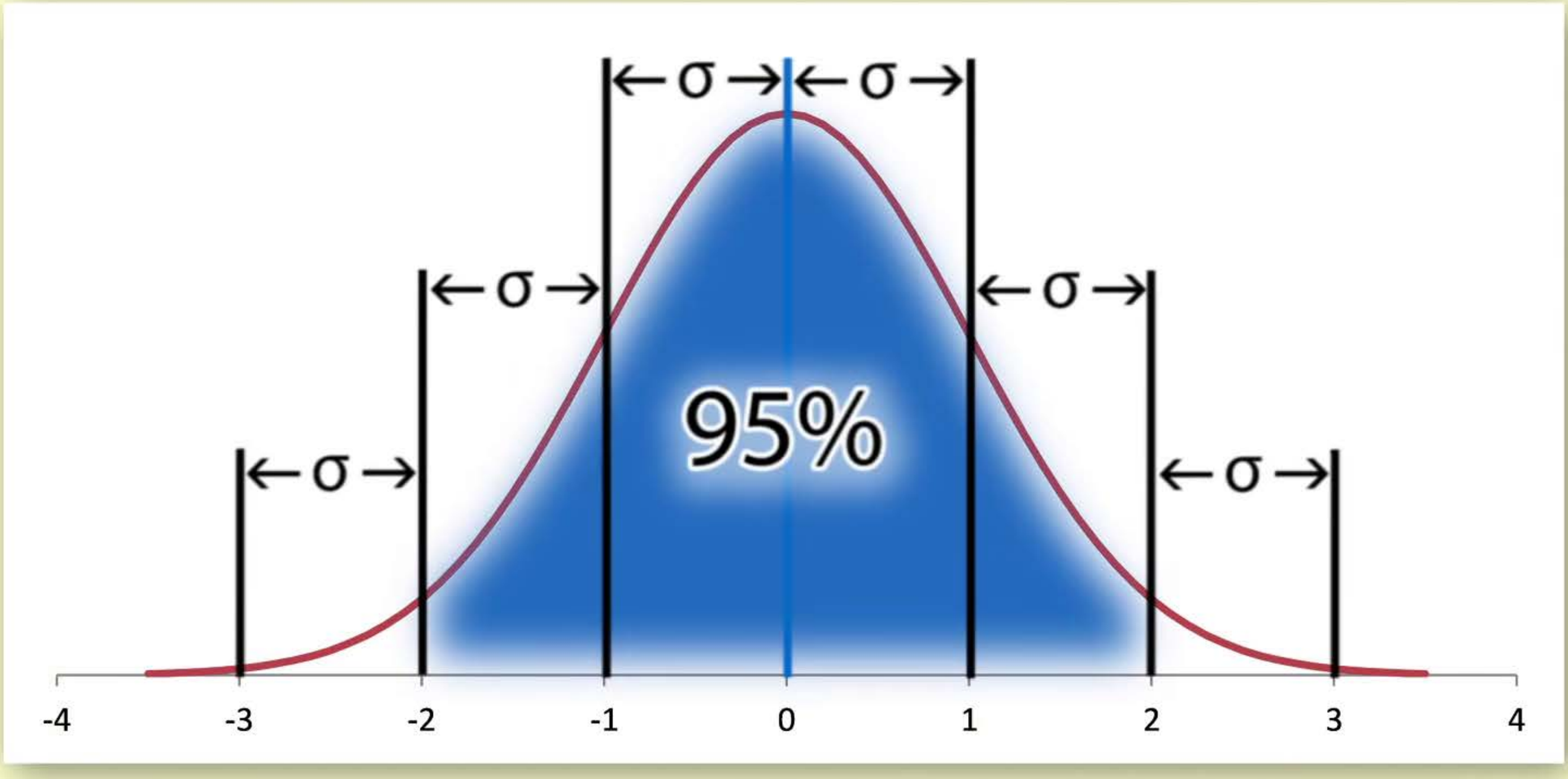
$$N(\mu, \sigma)$$

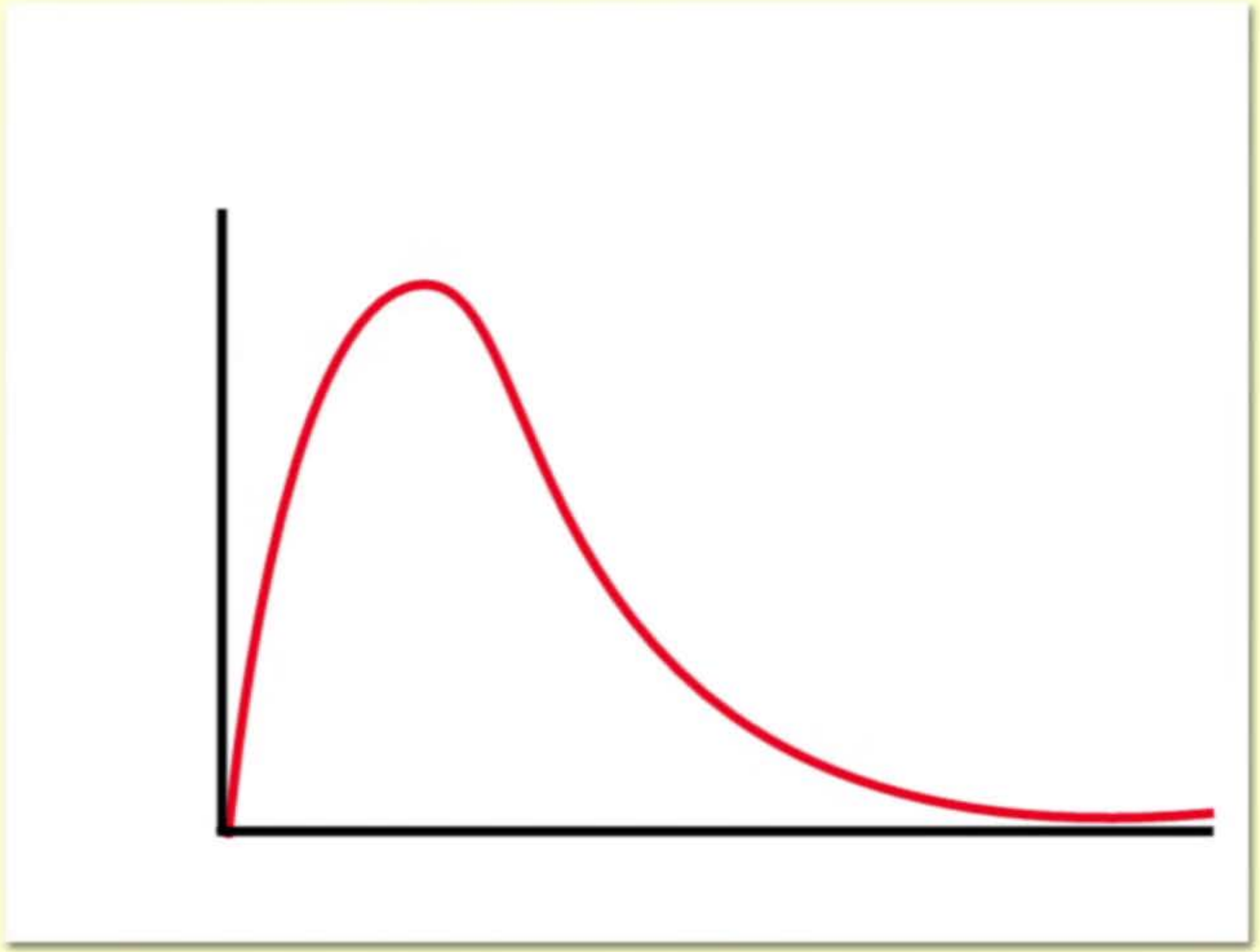

N(μ , σ)
Mean
Standard deviation

μ

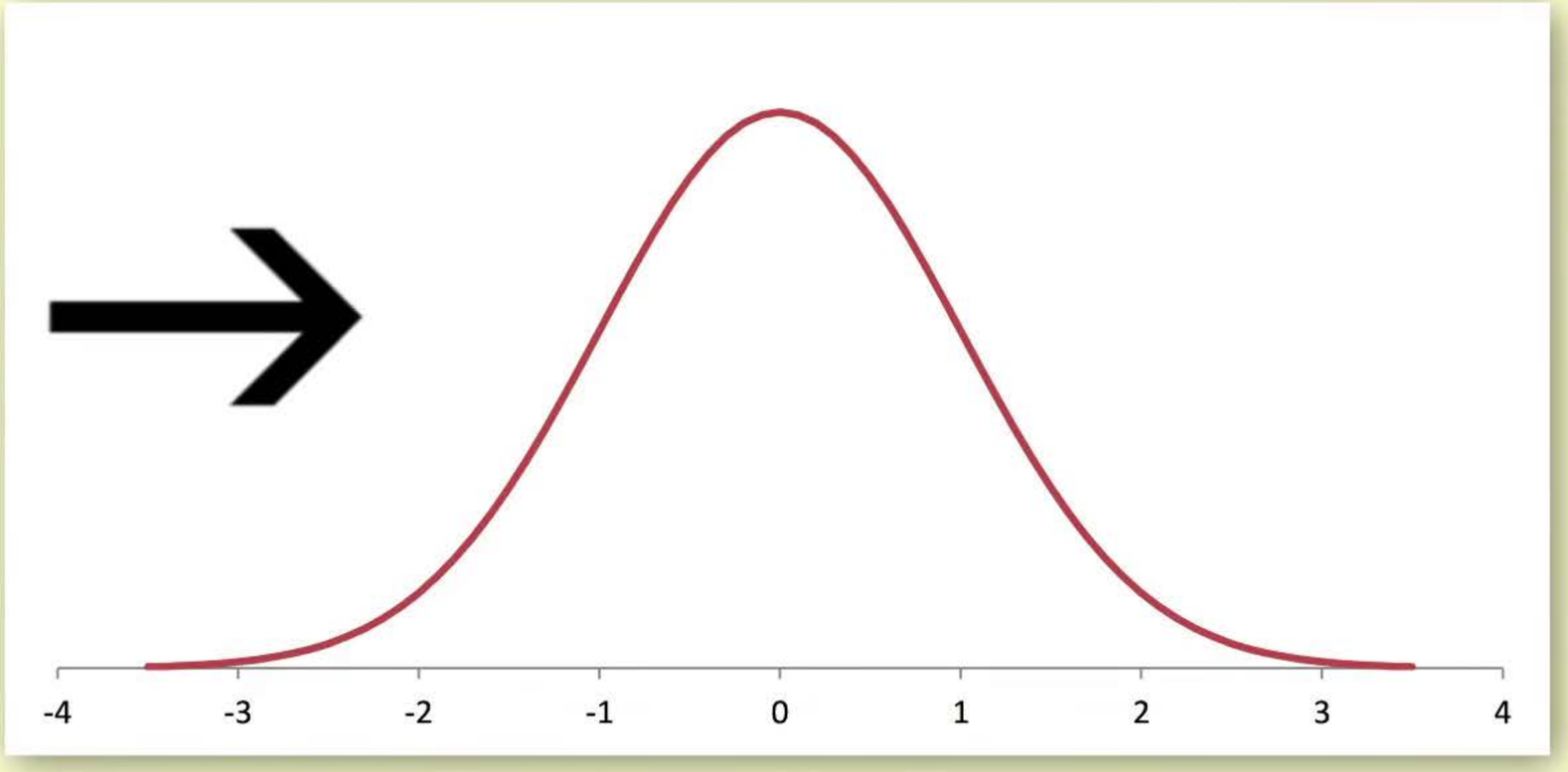


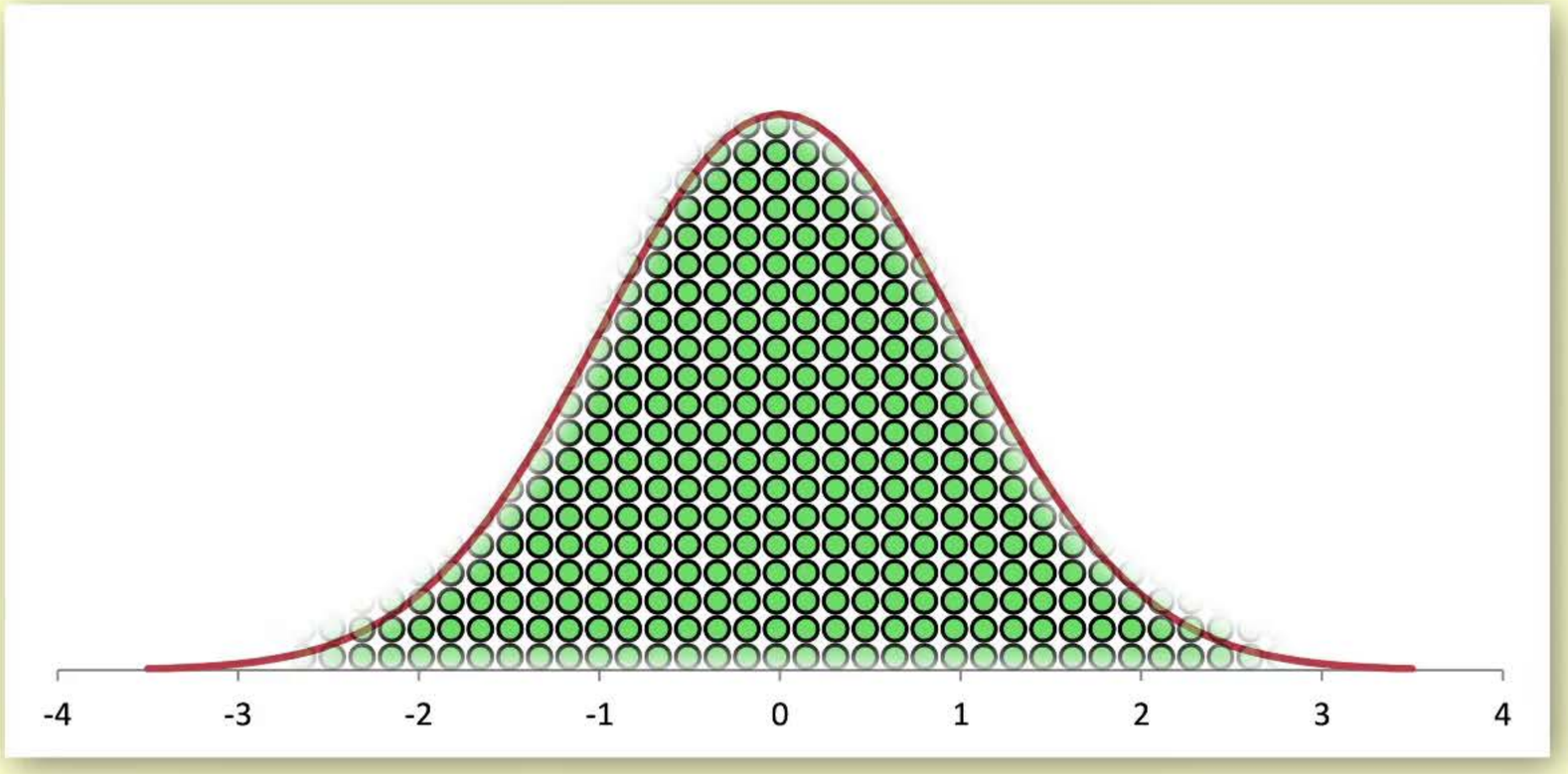

← σ →
← σ →
← σ →
← σ →
← σ →
-4
-3
-2
-1
0
1
2
3
4

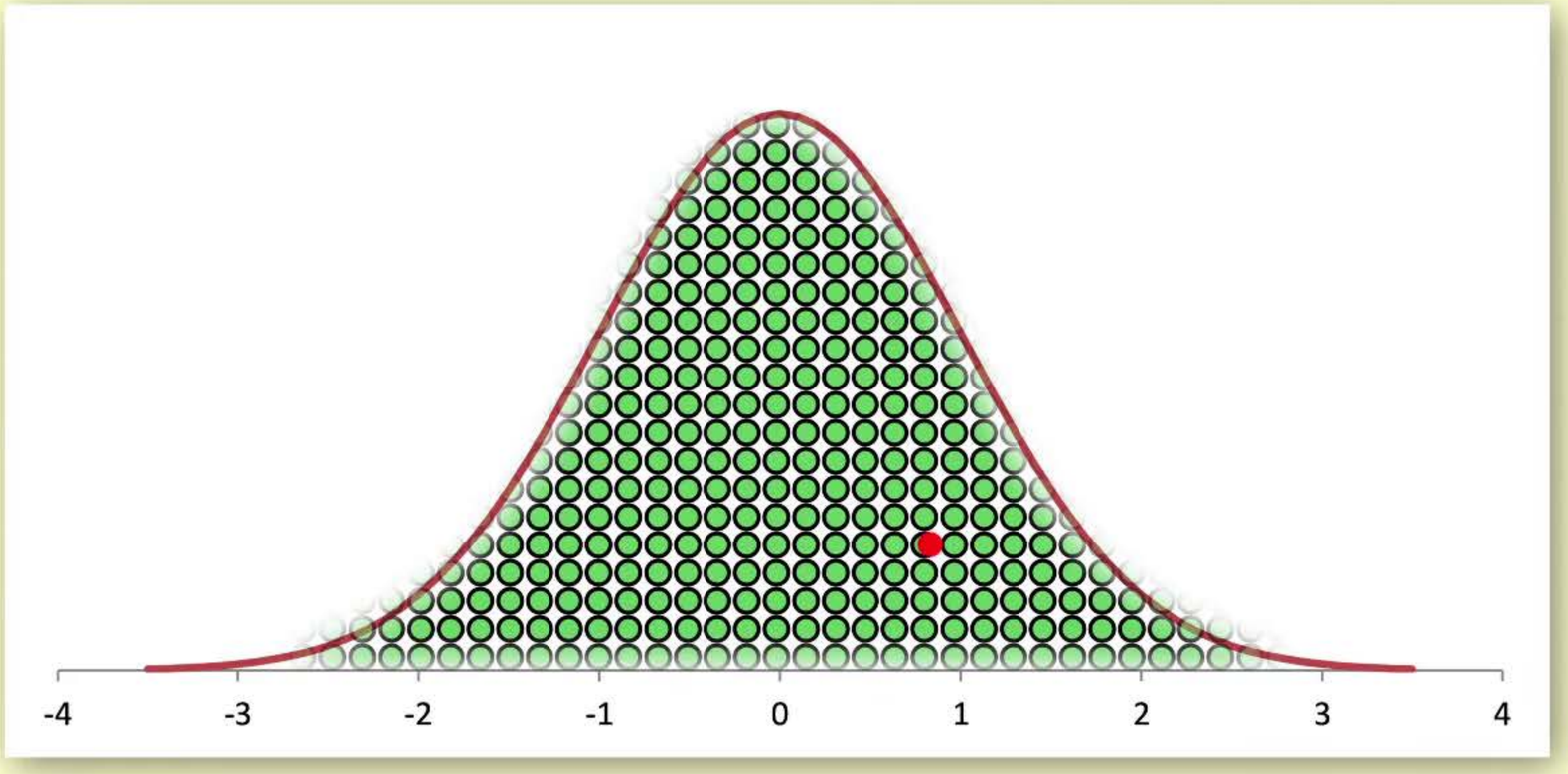

← σ → ← σ →
← σ →
← σ →
← σ →
95%
-4
-3
-2
-1
0
1
2
3
4

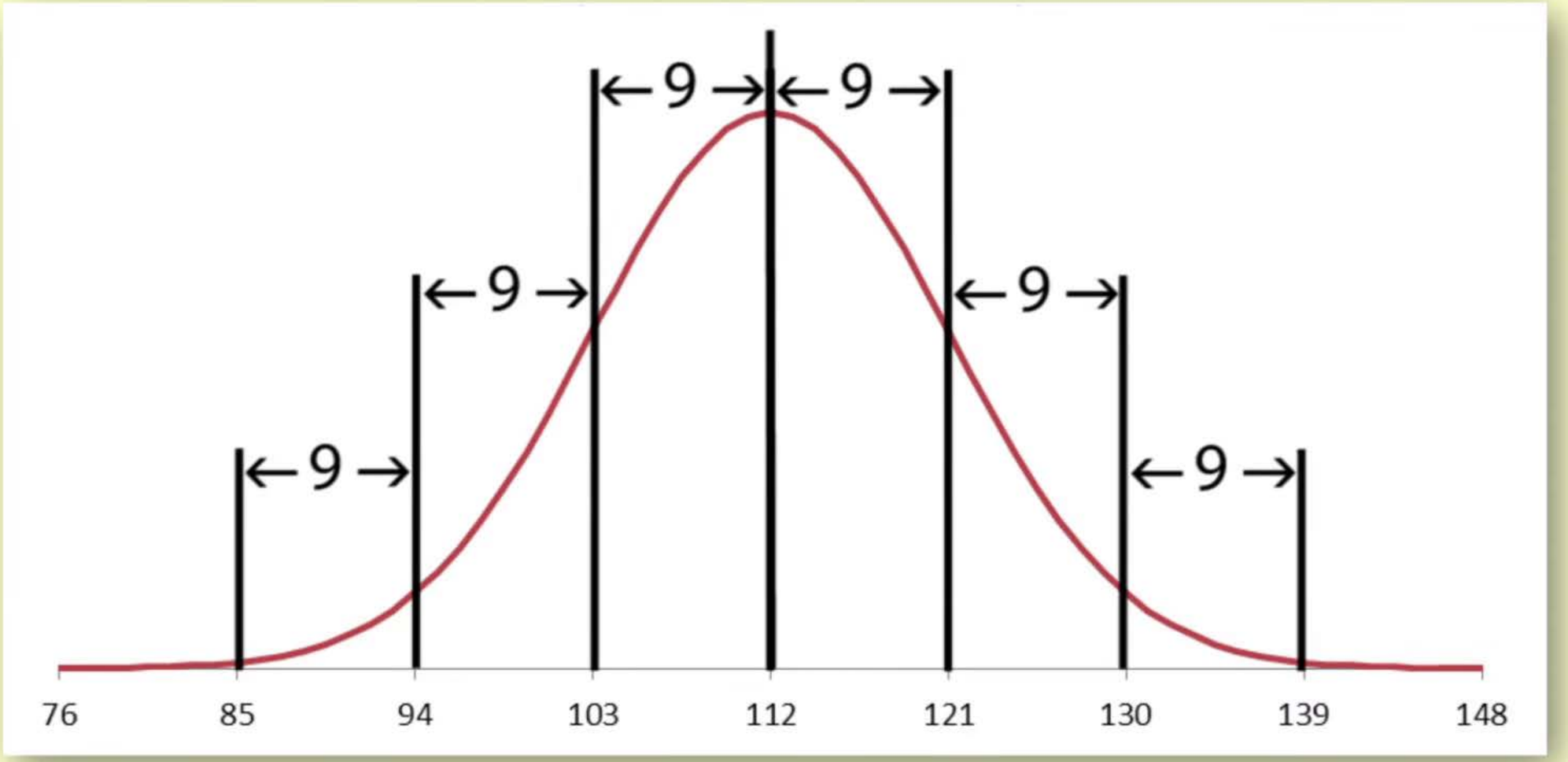


Probability
Density
Function

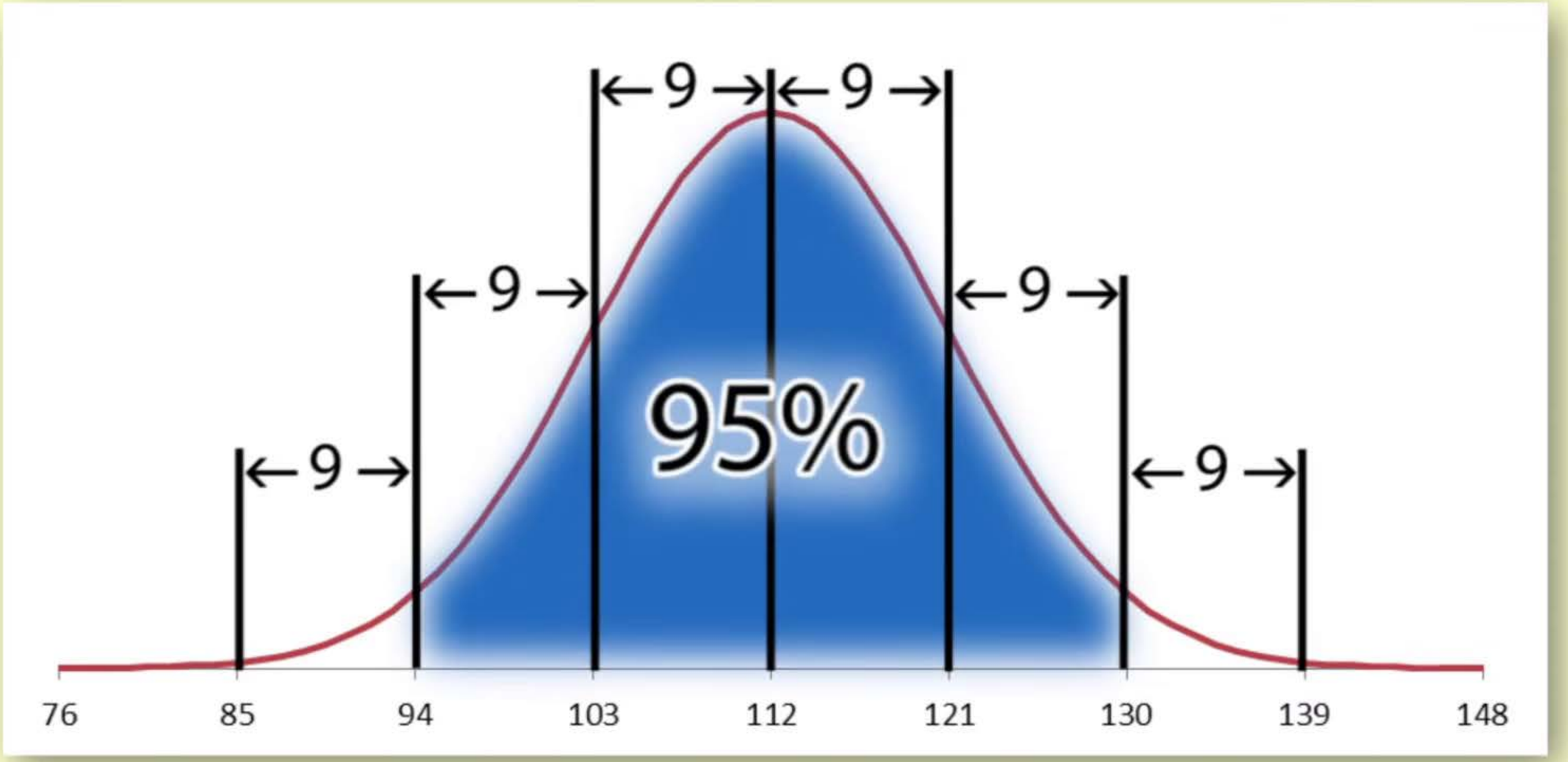



-4
-3
-2
-1
0
1
2
3
4

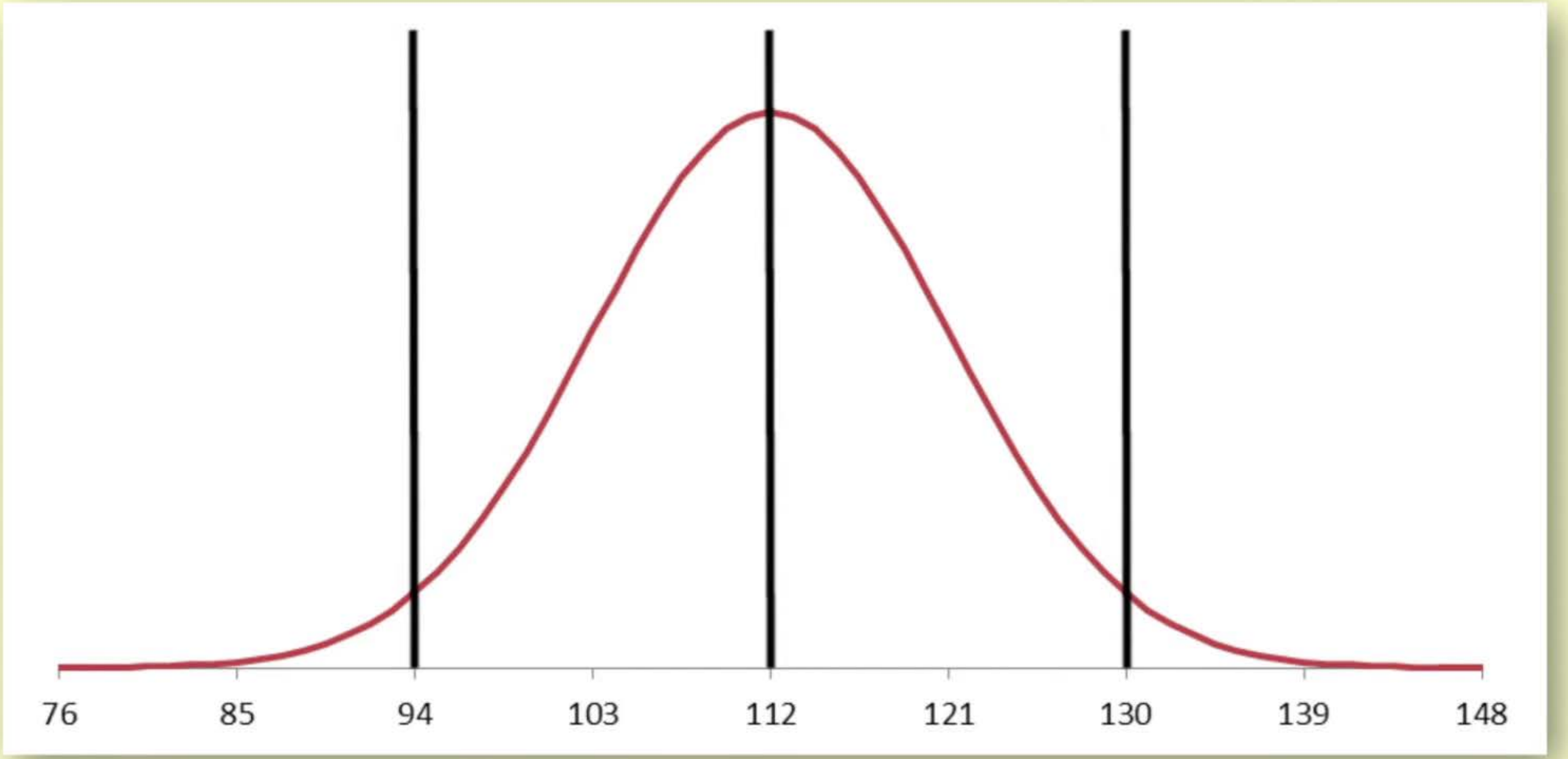

-4
-3
-2
-1
0
1
2
3
4



$\mu = 112g,$ $\sigma = 9g$

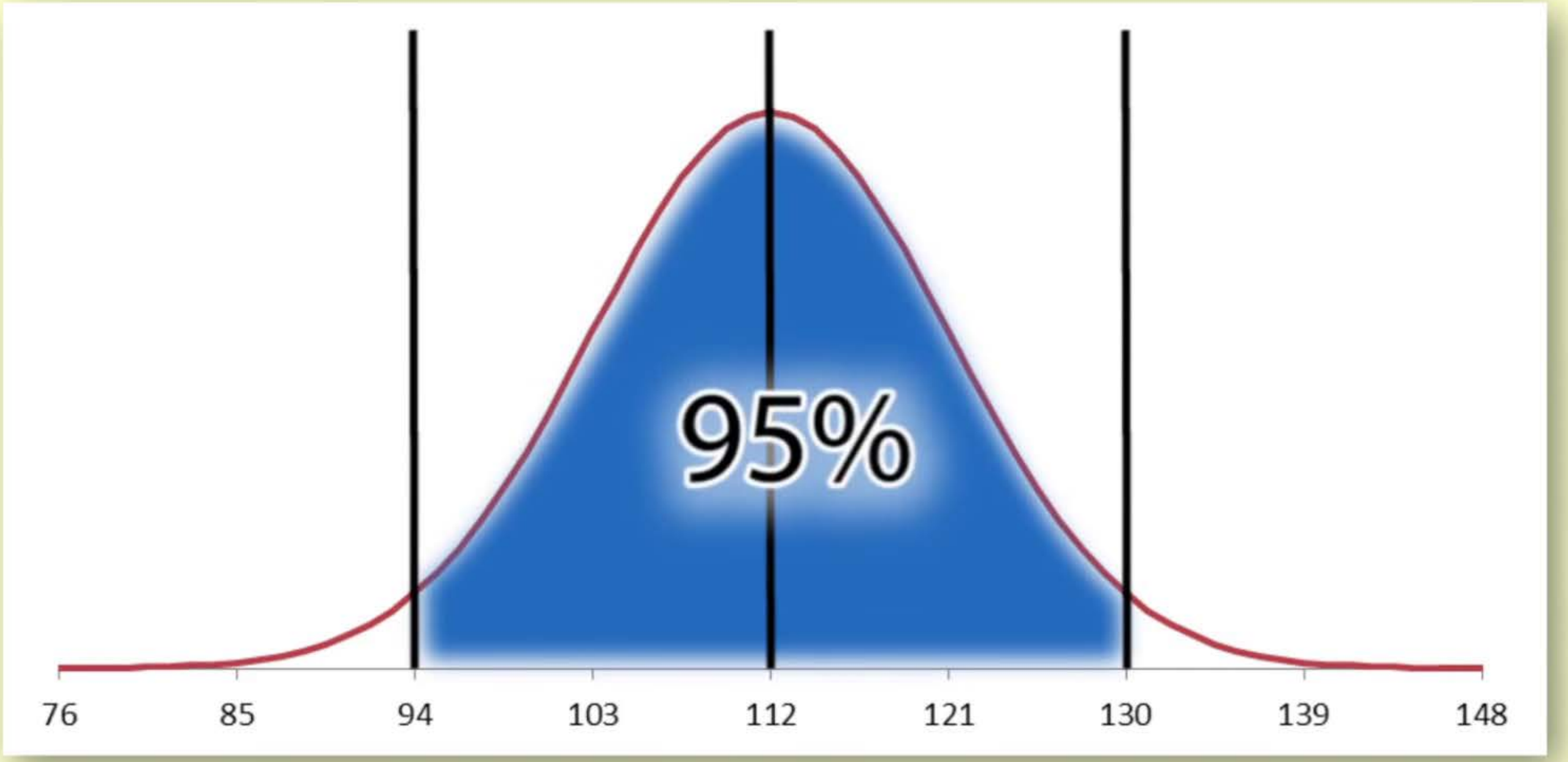


$\mu = 112g,$ $\sigma = 9g$



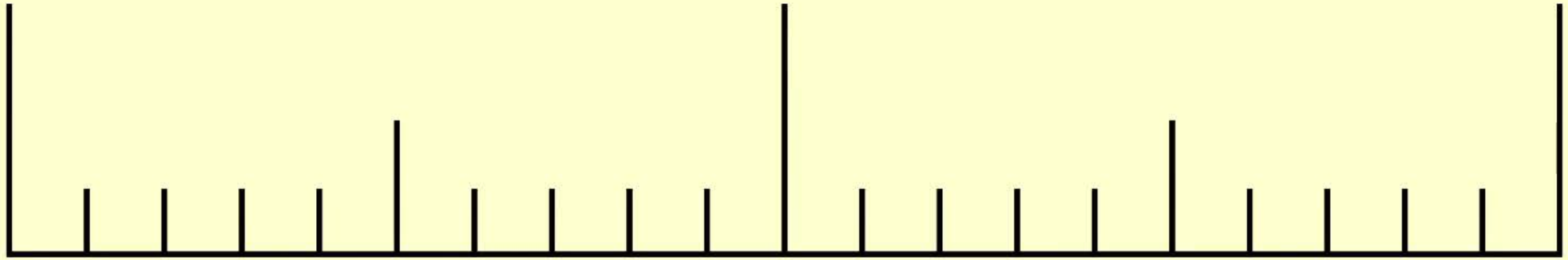
$112 - 18 = 94g$

$112 + 18 = 130g$

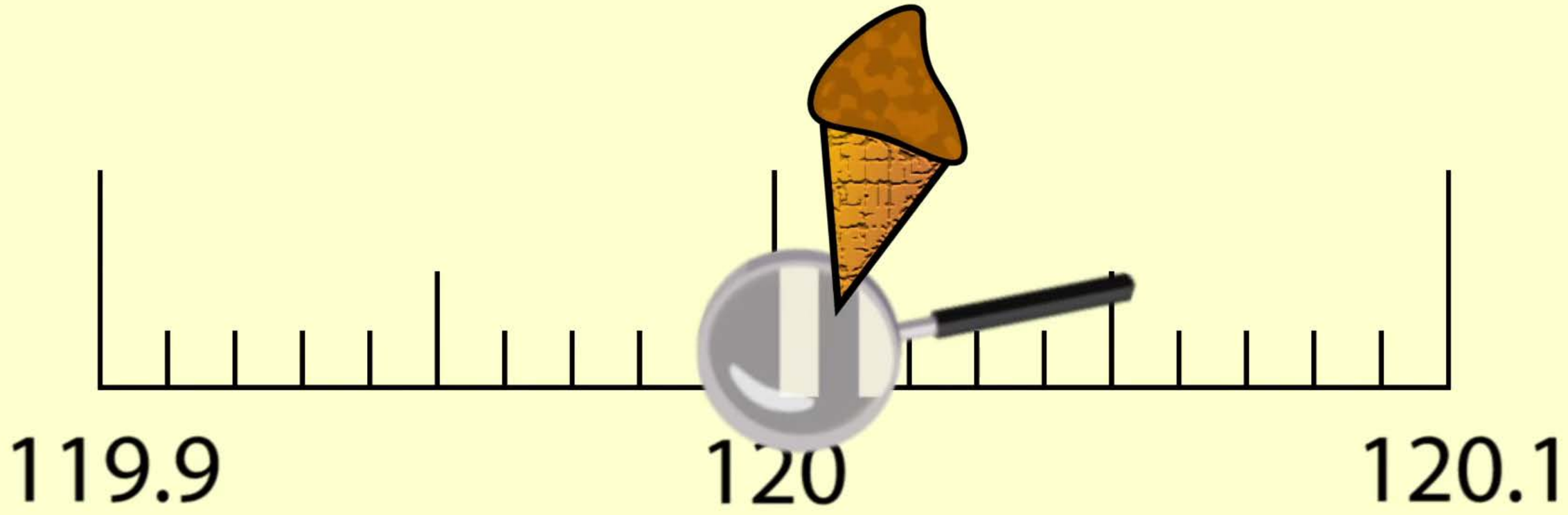


112 - 18 = 94g

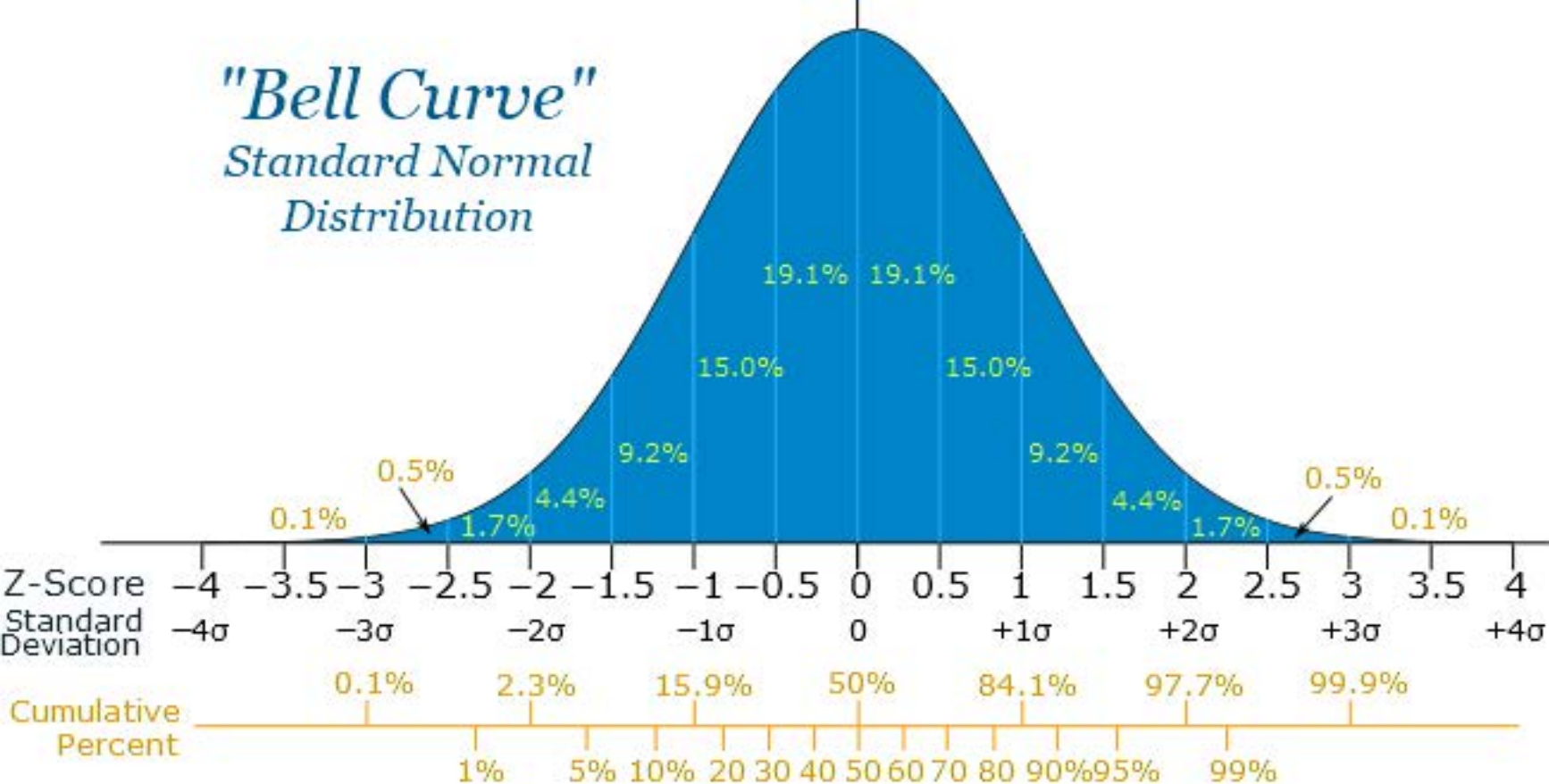
112 + 18 = 130g



$$\frac{1}{\infty} = 0$$



$$\frac{1}{\infty} = 0$$


"Bell Curve"
Standard Normal Distribution
19.1%
19.1%
15.0%
15.0%
9.2%
9.2%
4.4%
4.4%
1.7%
1.7%
0.5%
0.5%
0.1%
0.1%
Z-Score
−4 −3.5 −3 −2.5 −2 −1.5 −1 −0.5 0 0.5 1 1.5 2 2.5 3 3.5 4
Standard Deviation
−4σ −3σ −2σ −1σ 0 +1σ +2σ +3σ +4σ
Cumulative Percent
0.1% 2.3% 15.9% 50% 84.1% 97.7% 99.9%
1% 5% 10% 20 30 40 50 60 70 80 90% 95% 99%

Percentiles in a normal distribution