

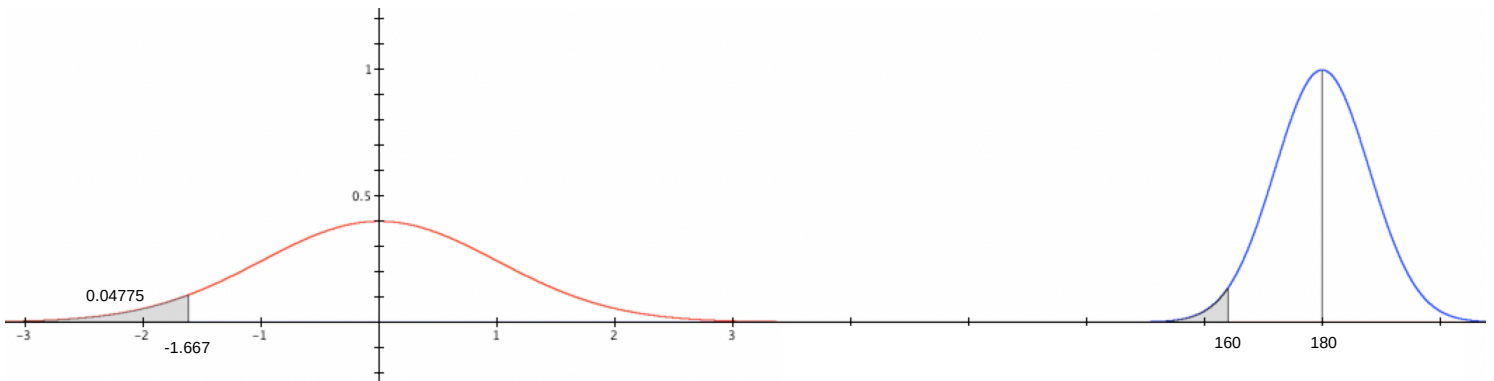
Three ways to approach our statistical work.

1.

$$\int_0^{160} \frac{1}{\sqrt{2.0 \pi (12)^2}} e^{\frac{-(x-180)^2}{2 (12)^2}} dx$$

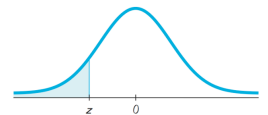
0.0477904

Using the Standard Normal Probability Distribution



2.

NEGATIVE z Scores



-2.0	.0228	.0222	.0217	.0212	.0207	.0202	.0197	.0192
-1.9	.0287	.0281	.0274	.0268	.0262	.0256	.0250	.0244
-1.8	.0359	.0351	.0344	.0336	.0329	.0322	.0314	.0307
-1.7	.0446	.0436	.0427	.0418	.0409	.0401	.0392	.0384
-1.6	.0548	.0537	.0526	.0516	.0505	.0495	.0485	.0475

Normal Distribution

Enter one value, then click
Evaluate to find the other value:

z Value:

Cumulative area
from the left:

z Value: -1.667000
Prob Dens: 0.0994219

Cumulative Probs
Left: 0.047757
Right: 0.952243
2 Tailed: 0.095514
Central: 0.904486
As Table A-2: 0.047757

3.