

Chapter Five Part Two: The Standard Normal Distribution

Recall:

Last time we talked about two methods for using the normal distribution so far:

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We also covered how to use _____ and how to calculate them:

The z-score has a couple of important properties:

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The Standard Normal Distribution and Standard Normal Table

The _____ is a normal distribution with a mean of zero and a standard deviation of one. It is a special case of the Normal distribution.



The _____ provides a way of obtaining percentiles from the standard normal distribution.

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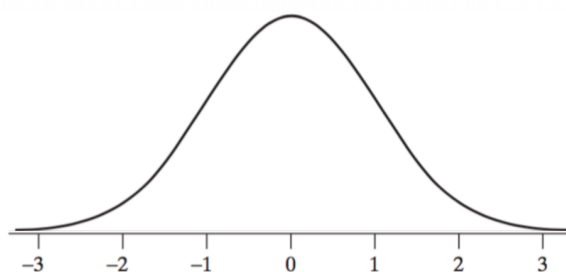
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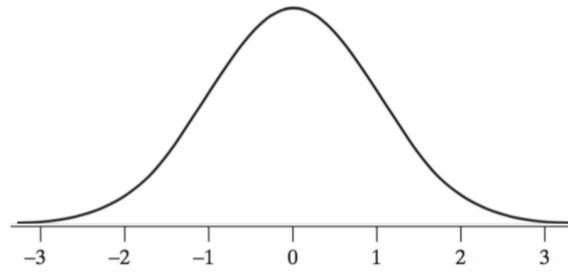
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For each of the following questions, utilize the z-table to obtain answers and shade in the Normal distribution plots with your answers appropriately.

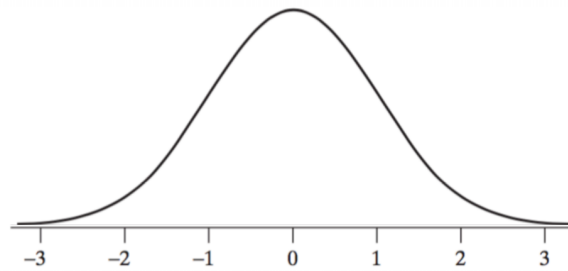
1. Find the percentile associated with a z-score of -1.75.



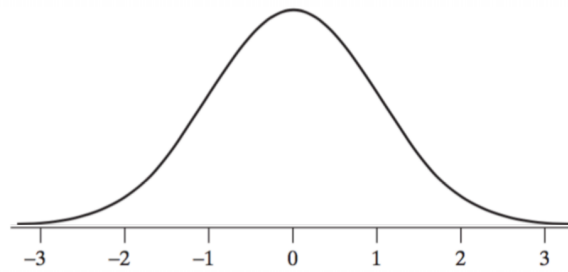
2. Find the percentile associated with a z-score of 2.



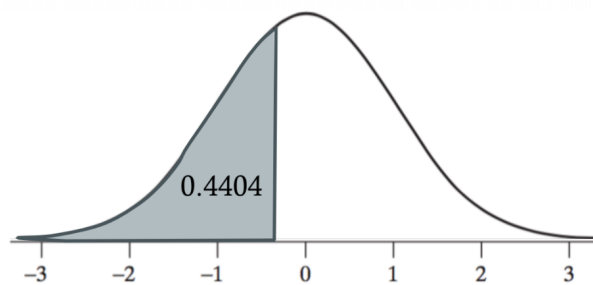
3. Find the proportion greater than $z = -2.2$.



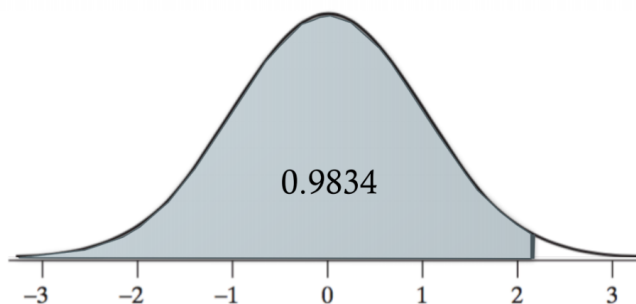
4. Find the proportion between the z-scores of -0.5, and 1.4.



5. Find the z-score associated with the following percentile.



6. Find the z-score associated with the following percentile.



7. Find the z-score associated with the following percentile.

