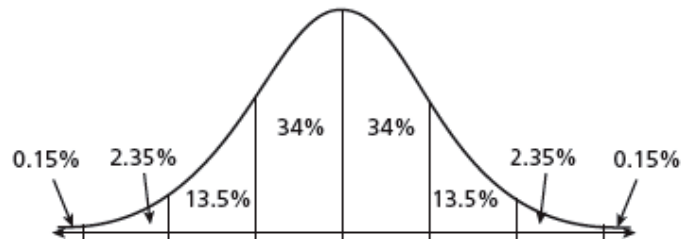


1. A normal distribution of IQ scores has a mean of 100 and a standard deviation of 16. Find each of the following.
 - a. The percent of people with an IQ of at least 100.
 - b. The percent of people with an IQ greater than 132.
 - c. The percent of people with an IQ between 84 and 116.
 - d. The probability that a randomly selected person's IQ is between 100 and 148.
 - e. The probability that a randomly selected person's IQ is at most 116.
 - f. The probability that a randomly selected person's IQ is below 132.



2. The number of natural satellites of major objects in the solar system (as of 2005) is given.

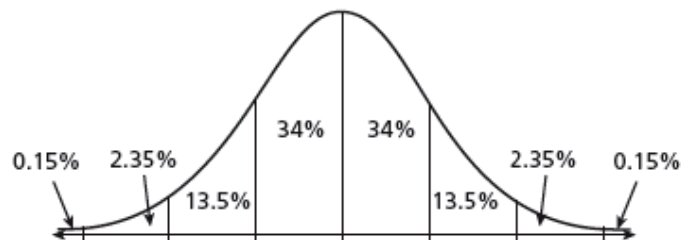
	Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune	Pluto
Satellites	0	0	1	2	63	33	27	13	1

Source: NASA Planetary Data System, 2005

Make a box-and-whisker plot of the data and find the interquartile range.

3. Use the data set: 93, 107, 110, 103, 98, 95, 12. Show work and round answers to the nearest tenth.
 - a. Find the mean.
 - b. Find the standard deviation.
 - c. Is 12 an outlier? Show work that supports your answer.

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