Statics

1. C

2. B

3. B

4. B

5. C

6. A

7. C

8. B

9. C

10. C

11. A

12. D

13.

The standard normal or z-distribution assumes that you know the population standard deviation. The t-distribution is based on the sample standard deviation.

14.

Like the normal distribution, the t-distribution is symmetric. If you think about folding it in half at the mean, each side will be the same. Like a standard normal distribution (or z-distribution), the t-distribution has a mean of zero. The normal distribution assumes that the population standard deviation is known.

15.

The t distribution (aka, Student's t-distribution) is a probability distribution that is used to estimate population parameters when the sample size is small and/or when the population variance is unknown.