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3.

- a) 0.0026 means that we can be reasonably confident that the true population mean lies within 0.0026 of the reported mean. 0.0026 is the standard deviation of the sampling distribution. Since on a normal distribution roughly 68.3% of measurements lie within one standard deviation of the mean and 0.0026 is the standard deviation of the sampling distribution, we can be 68.3% confident that the true mean 2D:4D ratios of people with congenital adrenal hyperplasia is within 0.0026 of the reported mean.
- b) According to the study, we can be 95% sure that the mean oestradiol concentration in US and Chinese men lie between 41.9pg/ml and 44.8pg/ml