Mod 8 prep

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1. The population mean µ controls the center
2. The standard deviation σ controls dispersion.
3. The mean is 3 and the standard deviation is 2.
4. Q~N(510,70)
5. N(3,2) is the most centered to the right, N(0,3) is most dispersed, N(3,2) is widest and N(0,1) is tallest.
6. The 68-95-99.7 states that 68% of individuals that follow a normal distribution have values between µ−1σ and µ + 1σ, 95% have values between µ−2σ and µ + 2σ, and 99.7% have values between µ−3σ and µ + 3σ.
7. The 68-95-99.7 rule can only be used for questions involving integer standard deviations away from mean.
8. Reverse calculations will give you the value and forward calculations will give you the area.
9. For a calculation of area under a normal curve you should use distrib()
10. Distrib() defaults to finding the area to the left. Lower.tail=FALSE is used to find the other direction.
11. Distrib() defaults to forward calculations but the argument type= “q” can be used to perform a reverse calculation.