2014 #3

\[ \text{norm cdf (141, \infty, 120, 10.5)} = 0.02275 \]

b. \( \sigma = \frac{10.5}{\sqrt{3}} = 6.0622 \)

\[ \text{norm cdf (141, \infty, 120, 6.0622)} = 0.0003 \]

High School A would be less likely to lose funding as the standard deviation decreases when the sample size is increased to 3 days, lowering the probability of losing funding from 0.02275 to 0.0003.

C. \[ \left( \frac{6}{15} \right)^3 \]

\[ = (0.4)^3 \]

\[ = 0.064 \]

\# of Mondays and Fridays in 3 weeks

\# of days sampled

\# of days of school in 3 weeks