

Assignment 32

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Part A

(a)

$$5 \cdot \frac{4}{52} \cdot \frac{47}{51} \cdot \frac{46}{50} \cdot \frac{45}{49} \cdot \frac{44}{48} = 0.2745 = 27.45\%$$

(b)

$$1 - \frac{48}{52} \cdot \frac{47}{51} \cdot \frac{46}{50} \cdot \frac{45}{49} \cdot \frac{44}{48} = 0.3411 = 34.11\%$$

Part B

$$1 - \frac{5!}{6^5} = 0.9845 = 98.45\%$$