

Ch. 5 Review Sheet Key

① ${}_{18}C_3 = \boxed{816 \text{ mix-in combinations}}$

② a) $P(\text{No left handed})^{10} = (.87)^{10} = \boxed{.248}$

b) Assign numbers 00-12 to left-handed, and Assign 13-99 to right-handed. Use a random number table to choose 10 numbers. Count how many of those values are 00-12.

c) ex Use line 131 \rightarrow 05, 00, 71, 66, 32, 81, 19, 41, 48, 73

2 = L, L, R, R, R, R, R, R, R, R,

\rightarrow 04, 19, 78, 55, 76, 45, 19, 59, 65, 65

1 = L, R, R, R, R, R, R, R, R, R,

\rightarrow 68, 73, 25, 52, 59, 84, 29, 20, 87, 96

0 = R, R, R, R, R, R, R, R, R, R,

\rightarrow 43, 16, 59, 37, 39, 31, 68, 59, 71, 50

0 = R, R, R, R, R, R, R, R, R, R,

\rightarrow 45, 74, 04, 18, 07, 65, 56, 13, 33, 02

3 = R, R, L, R, L, R, R, R, R, L

$$2 + 1 + 0 + 0 + 3 = \frac{6}{5} = \boxed{1.2 \text{ left-handed people on average out of 10 people}}$$

③ $P(\text{at least one club out of 4 cards}) = 1 - P(\text{No clubs})$

$$1 - \left(\frac{39}{52} \cdot \frac{38}{51} \cdot \frac{37}{50} \cdot \frac{36}{49} \right) = 1 - .3038 = \boxed{.6962}$$