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1 a) Probability = $\frac{16 \times 3 - 4}{C_{52}^3} = 1.991 \times 10^{-3}$

$$b) \text{ Probability} = \frac{(16 \times 16) \times 3 - 4 \times 4}{C^{104}_3} = 4.13 \times 10^{-3} //$$