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$$(b) |\Omega| = 32!$$

$$\begin{array}{ccc} k & k & k \\ 7 & 12 & 17 \end{array}$$

$$|A| = C(4,3) \cdot P(3) \cdot P(29)$$

$$P(A) = \frac{|A|}{|\Omega|} = \frac{1}{1240}$$

$$(c) |\Omega| = C(32,3)$$

$$|A| = C(4,3)$$

$$\frac{1}{\binom{32}{3}}$$

$$P(A) = \frac{|A|}{|\Omega|} = \frac{\binom{4}{3}}{\binom{32}{3}} = \frac{4}{\frac{32!}{3! \cdot 29!}} =$$

$$= \frac{4 \cdot 3! \cdot 29!}{32!} = \frac{1}{1240}$$

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