

A

$$1) \quad P(A) = \frac{\binom{4}{4}}{\binom{32}{4}} = \frac{1}{35960} \cdot 100\% = 0,0028\% , \quad P(B) = 1 - \frac{\binom{28}{4}}{\binom{32}{4}} = 1 - \frac{20475}{35960} \cdot 100\% = 43,1\% ,$$

$$P(C) = \frac{\binom{8}{4}}{\binom{32}{4}} \cdot 4 = \frac{70}{35960} \cdot 4 \cdot 100\% = 0,78\%$$

$$2) \quad P(A) = \frac{4}{9} \cdot \frac{3}{8} \cdot \frac{2}{7} = \frac{24}{504} = 0,0476 = 4,76\% , \quad P(B) = \frac{7}{9} \cdot \frac{6}{8} \cdot \frac{5}{7} = \frac{210}{504} = 0,417 = 41,7\%$$

$$3) \quad P(A) = \frac{1}{6} \cdot \frac{5}{6} + \frac{5}{6} \cdot \frac{1}{6} = \frac{10}{36} = 27,8\% , \quad P(B) = \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4} = 25\% ,$$

$$P(C) = 1 - \frac{5}{6} \cdot \frac{5}{6} = \frac{11}{36} = 30,6\%$$

$$4) \quad P(A) = 0,85 \cdot 0,55 \cdot 0,82 = 38,3\% , \quad P(B) = 0,85 \cdot 0,55 \cdot 0,18 = 8,4\% ,$$

$$P(C) = 0,85 \cdot 0,45 \cdot 0,82 = 31,4\%$$

$$5) \quad a) \quad \begin{array}{l} : n \geq 1 \\ P = \{1\} \end{array}$$

$$5b) \quad P = \{1,2,3,4\}$$

6) Variace tvoříme ze 7-prvkové množiny.