

$$1) \quad P(A) = 1 - \frac{\binom{28}{4}}{\binom{32}{4}} = 1 - \frac{20475}{35960} = 0,4306 = 43,06\%$$

$$P(B) = \frac{\binom{28}{4}}{\binom{32}{4}} = \frac{20475}{35960} = 0,5694 = 56,94\%, \quad P(C) = \frac{\binom{8}{4}}{\binom{32}{4}} = \frac{70}{35960} = 0,0019 = 0,19\%$$

$$2) \quad P(A) = \frac{4}{12} \cdot \frac{3}{11} \cdot \frac{2}{10} \cdot 100\% = 1,81\%, \quad P(B) = \frac{10}{12} \cdot \frac{9}{11} \cdot 100\% = 68,2\%$$

$$3) \quad P(A) = \frac{1}{6} \cdot \frac{5}{6} + \frac{5}{6} \cdot \frac{1}{6} = \frac{10}{36} = 27,8\%, \quad P(B) = \frac{4}{6} \cdot \frac{4}{6} = \frac{16}{36} = 44,4\%,$$

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

$$4) \quad P(A) = 0,84 \cdot 0,66 \cdot 0,92 = 51\%, \quad P(B) = 0,84 \cdot 0,66 \cdot 0,08 = 4,4\%,$$

$$P(C) = 0,84 \cdot 0,34 \cdot 0,92 = 26,2\%$$

$$5) \quad a) \quad P = \{7\}$$

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

6) Kombinace se tvoří ze 7 prvků