

# Recreational puzzles

3 cards 10

$$N(A) = C_{13}^4 = \frac{13!}{4!(13-4)!}$$

$$N = C_{52}^4 = \frac{52!}{4!(52-4)!}$$

$$P = \frac{13!}{4! 9!} \cdot \frac{52!}{4! 48!}$$

$$P = \frac{13! \cdot \cancel{4!} \cdot 48!}{\cancel{4!} 9! 52!} =$$





