

ES 15-03-2019

- 4 pacchetti di bigie
- dado equilibrato 4 facce

6 bigie rosse $\rightarrow R$

5 bigie nere $\rightarrow N$

1) Si preschi esattamente 2, N

$$P(R, N) = \frac{1}{4} \cdot \frac{6^3}{11} \cdot \frac{5}{11} = \frac{15}{242}$$

2) N R R

$$P(N, R, R) = \frac{1}{4} \cdot \frac{5}{11} \cdot \frac{6^3}{11} \cdot \frac{6^3}{11} = \frac{80}{1331}$$

3) Almeno 3 N (N N R) (R, N N) (N R N) (N N N R) (N N N)

~~$$\frac{5}{11} \cdot \frac{1}{4} \cdot \frac{6^4}{11} + \frac{1}{4} \cdot \frac{6^3}{11} \cdot \frac{5}{11} =$$~~

~~$$\frac{1}{4} \cdot \left(\frac{5}{11}\right)^4 \cdot 5 + \frac{1}{4} \cdot \left(\frac{5}{11}\right)^3$$~~

ESCE 4 ESCE 3

$$\underbrace{\frac{6}{11} \cdot \frac{1}{4} \cdot \left(\frac{5}{11}\right)^3}_{NNN*} + \underbrace{\frac{1}{4} \cdot \left(\frac{5}{11}\right)^4}_{NNNN} + \underbrace{\frac{1}{4} \left(\frac{5}{11}\right)^3}_{NNN} = \frac{1250}{14641}$$