

$$SZ = \{1, 2, 3, 4, 5, 6\}$$

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$$P: \mathcal{P}(\Omega) \longrightarrow \mathbb{R}$$

$$A \longrightarrow \mathbb{P}(A) \qquad (\mathbb{R}(A) = 0, 3)$$

$$\mathcal{P}(\Omega)$$

GLI ELEMENTI DI P(R) VENCONO DENOMINATI
"EVENTI"

$$\Omega = \{1, 2, 3, 4, 5, 6\}$$

$$A = \{2, 4, 6\}$$

$$P(A) = \frac{1}{2}$$

IP DEVE SOBBISFARE ALCUNE PROPRIETA:

$$2 P(\Omega) = 1$$

- · SIA A, B EVENTI, A, B = D IP(A)B) = IP(A) + IP(B)
- SIA (A;) UNA COZLEZIONE DI EVENTI SUD \* EUD ITUUIDZID

$$\mathbb{P}\left(\bigcup_{i=1}^{\infty}A_{i}\right)=\mathbb{P}\left(A_{i}\right)$$

SE IP SONDISFA GLI APRIONA (DE) SI CHIAFTA-FUNZIONE & PROPARICITA.

## LANCIO BI UNX MONJEA:

$$SZ = \{T, C\}$$

$$P(SZ) = \{\{T\}, \{c\}, \{T, c\}, \vec{p}\}$$

$$\mathbb{P}(\underline{I})$$

$$1 = \mathbb{P}(\Omega) = \mathbb{P}(\Omega \cup \overline{\Phi})$$

$$= \mathbb{P}(\mathcal{D}) + \mathbb{P}(\mathcal{J})$$

$$= \int + \mathbb{P}(\phi)$$

(ES): LANCIO DI UNA TIONETA:

$$1 = \mathbb{P}(sz) = \mathbb{P}(\{T\}\cup\{c\}) = \mathbb{P}(T) + \mathbb{P}(c)$$

$$\Rightarrow P(+) = \frac{1}{2}$$

$$P(c) = \frac{1}{2}$$

$$\left( |P(\tau)| = |P(c)| \right)$$

ED LANCIO DI UN DADOT CON M FACCE, MEIN.

$$\mathcal{L} = \left\{1, 2, 3, \dots, m\right\}$$

$$\begin{cases}
\frac{1}{2}, \begin{cases} \frac{1}{2}, \begin{cases} \frac{1}{3}, \\ \frac{1}{4}, \frac{1}{3}, \\ \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \dots \end{cases} \\
\frac{1}{4}, \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \dots \end{cases} \\
\frac{1}{4}, \frac{1}{2}, \frac{1}{3}, \dots, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \frac{1}{4}, \dots \end{cases} \\
\frac{1}{4}, \frac{1}{$$

$$\binom{6}{2} = \frac{6!}{2!4!} = \frac{36.5.4!}{\cancel{2}\cancel{4}!} = \cancel{15}$$

BADO EQUO => IP({1}) = IP({1}) = ... = IP({1})

$$IP(S2) = IP({1}) \cup {1} \cup {1}$$

$$\begin{aligned} & \left| \left| \left( \left\{ i, J, u \right\} \right) \right| = \left| \left| \left( \left\{ i \right\} \cup \left\{ J \right\} \cup \left\{ u \right\} \right) \right| \\ & = \left| \left| \left| \left( \left\{ i \right\} \right) \right| + \left| \left| \left| \left\{ u \right\} \right| \right| \right| = \frac{3}{m} \end{aligned}$$

$$\{i\}$$
 SI VERIFICA  $= \sum_{i} \{i, j, k\}$  SI VERIFICA

# CAII POSSIBILI