che rappresenta la somma dei punteggi ottenuti dal lancio V.A. Z Consideria mo una di olve dadi Bilanciati

Q1: PMF di 2?

La PMF ci dice la prob. della va. di assumene un dato valore, puvero: [= P(12=3])

Q2A M7

$$M_{z} = \mathbb{E}[z] = \sum_{\kappa \in A_{z}} x_{\kappa} \cdot \mathcal{P}(\kappa)$$

5/36 6/36

$$= D M_{Z} = \frac{1}{36} (2+12) + \frac{2}{36} (2+11) + \frac{3}{36} (4+10) + \frac{4}{36} (5+9) + \frac{5}{36} (6+8) + \frac{6}{36} ?$$

$$= \frac{125}{18} \approx 7 M_{Z}$$

$$\overline{Z}^2 = \sum_{K \in A_{\underline{z}}} \chi_K^2 \qquad \mathcal{P}(K) = \frac{803}{18} \sqrt{44.6} \quad \overline{Z}^2$$

=D 
$$\sigma_z^2 = \sum_{K \in \mathcal{A}_z} (K - \mathcal{H}_z)^2 \cdot \mathcal{P}(n)$$
 ma esseudo D1 e D2 indipendenti...  $\sigma_z^2 = \sigma_{\mathcal{P}_1}^2 + \sigma_{\mathcal{P}_2}^2 =$ 

$$= D \times_{D_{1}} = A_{D_{2}} = \{1, 2, 3, 4, 5, 6\} = D \times \{D_{1}\} = Var[D_{2}] = \sum_{K \in A_{D}} (K - \mu_{D})^{2} P(K)$$

$$P_{K} = \frac{1}{6} \forall K , \notin [D] = \frac{1}{6} [1 + 2 + \dots + 6] = 3.5$$

$$Var [D] = \# [(D-\mu_D)^2] = D^2 - \mu_D^2 \qquad D^2 = 15.16$$

$$L_D \sigma_D = 15.16 - 12.25 = 2.91$$

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$$= 0 \sigma_z^2 = 2.91 + 2.91 = (5.82) \sigma_z^2$$
 Time 21

