

## Demanda 9 - Exercício 3

$$X \sim U_0 \{1, \dots, n\}$$

$$a=1 \quad ; \quad b=n$$

$$a- \quad E(X) = \frac{a+b}{2} \Rightarrow^* E(X) = \frac{1+n}{2} \quad \checkmark$$

$$b- \quad \text{var}(X) = \frac{(b-a+1)^2 - 1}{12} \Rightarrow \text{var}(X) = \frac{(n-1+1)^2 - 1}{12} \\ \Rightarrow^* \text{var}(X) = \frac{n^2 - 1}{12} \quad \checkmark$$