

Recitation: sampling people on bases Total: 148 X: number of students in the bus of the Selected student Y: -11- driver Bu ses 40 33 25 50

 $\frac{1}{25} \cdot \frac{1}{33} \cdot \frac{1}{40} \cdot \frac{1}{50}$ $\frac{1}{50} \cdot \frac{1}{50} \cdot \frac{1}{50}$

$$P_{X}(X) = \begin{cases} 40/147 & x = 40 \\ 33/148 & x = 33 \end{cases}$$

$$P_{Y}(y) = \begin{cases} \frac{1}{9} & y = 40 \end{cases}$$

 $E[X] = 25 \frac{25}{148} + \frac{33^{2}}{148} + \frac{40^{2}}{148} + \frac{50^{2}}{148}$

= 5865 \$ 39,6

 $E[Y] = \frac{7.5}{2} = 3.7.5$

random variable
$$P_{X}(x) = \frac{x^{2}}{a} \quad x \in \{-3, -2, -1, 1, 2, 3\}$$

$$\left(\frac{3}{a} + \frac{4}{a} + \frac{7}{a}\right)^2 = 1$$

 $\frac{14}{a} = \frac{1}{2}$

$$Z-X^2$$
 $P_Z(k) = P(Z-k)$ $Z \in \{9, 4, 1\}$

$$P_{z}(K)z2\frac{k^{2}}{a}$$

