

$$E(X) = 1 \cdot \frac{1}{10} + 2 \cdot \frac{2}{10} + 3 \cdot \frac{3}{10}$$

$$+ 4 \cdot \frac{4}{10}$$

$$= \frac{1}{10} + \frac{4}{10} + \frac{9}{10} + \frac{16}{10} = 3$$