

Not squared

$$E(X)^2 = (1^2) \left(\frac{1}{6} \right) + (2^2) \left(\frac{1}{6} \right) + \dots$$

first value squared

second value squared

The diagram illustrates the calculation of the second moment $E(X)^2$ for a discrete random variable. The equation $E(X)^2 = (1^2) \left(\frac{1}{6} \right) + (2^2) \left(\frac{1}{6} \right) + \dots$ is shown. Annotations include: 'first value squared' pointing to 1^2 , 'second value squared' pointing to 2^2 , and 'Not squared' pointing to the probability terms $\frac{1}{6}$. Arrows also connect the text labels to their respective parts in the equation.