

Consider the following pmf:

$p \leftarrow 0.1, 0.2, 0.3, 0.4$

$x \leftarrow 1, 2, 3, 4$

What is the mean?

$$E[X] = 1(0.1) + 2(0.2) + 3(0.3) + 4(0.4) = 3$$

$$E[X] = \mu = 3$$