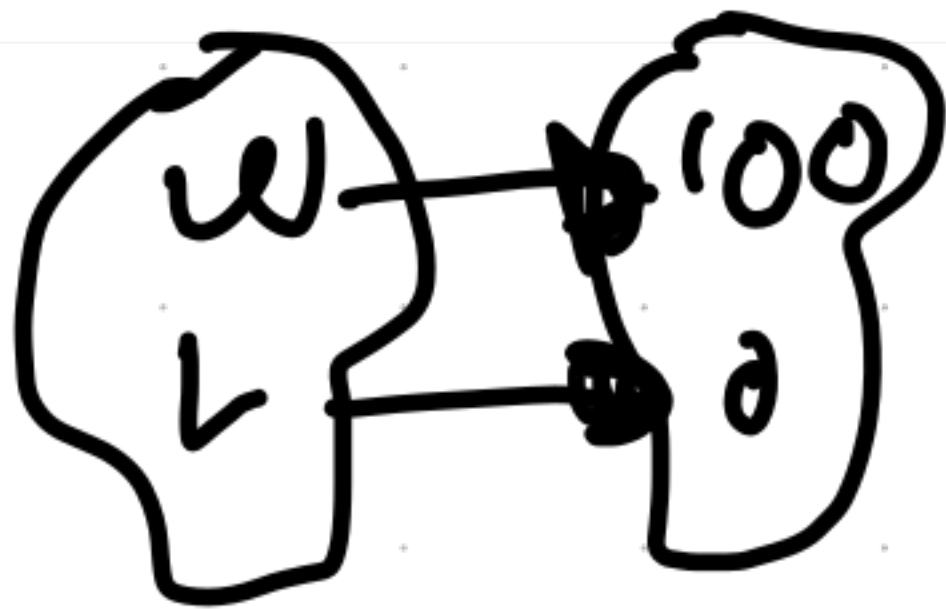


$$E[X] = \sum_{x_i \in X} P(x_i) x_i$$

$X$  is a r.v.

$$X: \Omega \rightarrow \mathbb{R} = .6 \cdot 100 + .4 \cdot 0 = 60$$



$$P(W) = .6$$

$$X_i = 100$$

$$P(L) = .4$$

$$X_i = 0$$

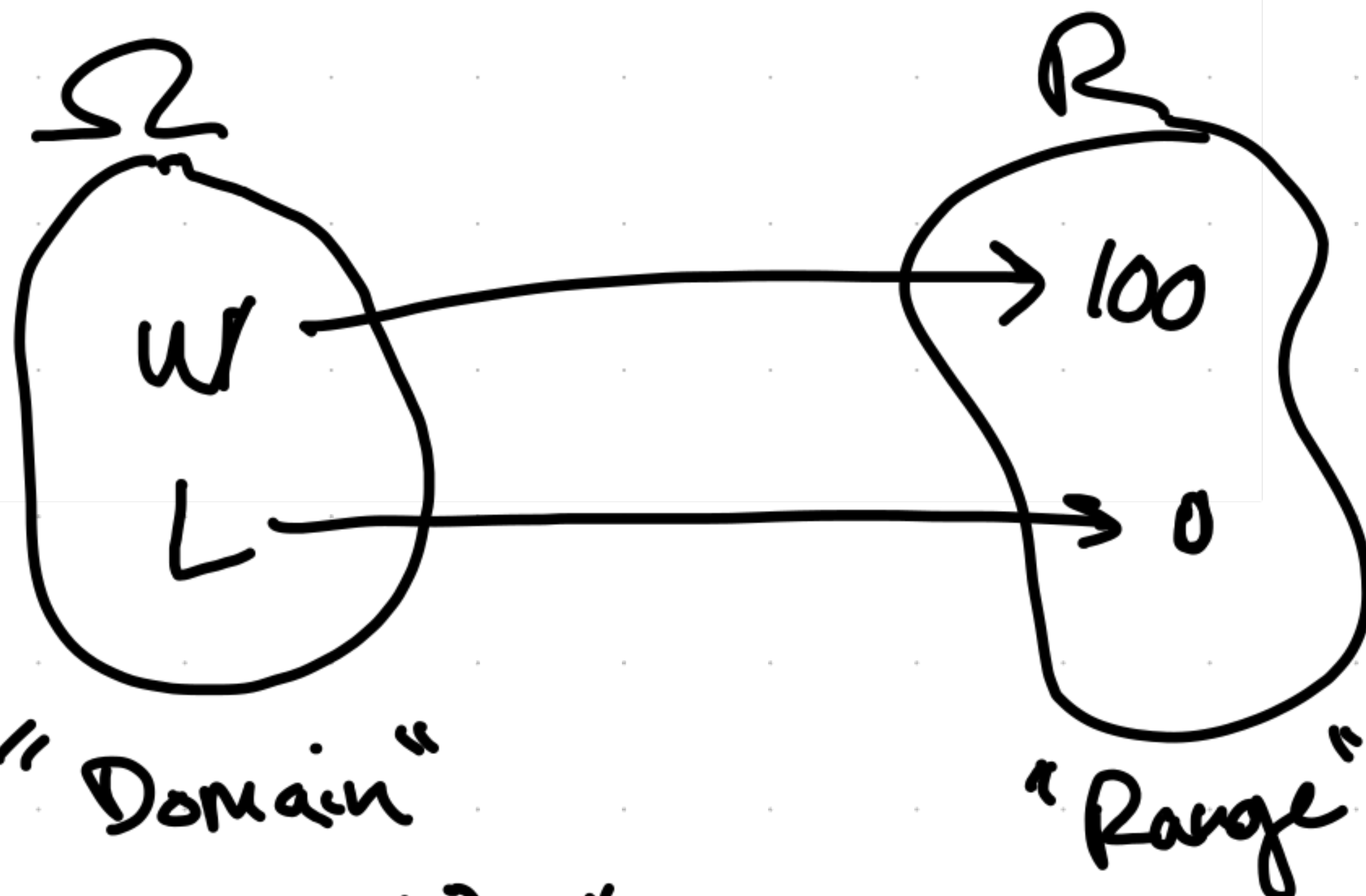
r.v.  $X$  is a function

$$X: \Omega \rightarrow \mathbb{R}$$

$$X := L \in \Omega$$

or

$$X := W \in \Omega$$



$$P(W) = .6 \quad P(L) = .4$$