The expected value of the sample mean is the Population mean and SE of the Sample mean is the SD of the Population, divide by the soware-poot of the sample size. And the expected value of a trandom variable is the weighted avarage of all Possible values of the variable the trandom variable taking a specific value.

$$M = E[X] = (1 \times 1/6) + (2 \times 1/6) + (3 \times 1/6) + (4 \times 1/6) + (5 \times 1/6) + (6 \times 1/6)$$

$$= 3.5$$

the 3.5, which is not a Possible value of x.

the variance of the prandom variable. X i's defined as:

$$V(x) = 6 = E(x^{\prime}) - E(x)$$

$$= E(x^{\prime}) - E(x)$$

$$=v(3.5)=63.5=E(3.5-E(3.5))$$

The Expected value 20