$E(X)$

$\sum x P(X=x)$

$E(X^2)$

$\sum x^2 P(X=x)$

$Var(X) = \frac{52}{6}$

A bag contains 2 red and 3 blue counters. 2 counters are drawn from the bag at random. X is the number of red counters drawn.

$Var(X)$

$100Var(X^{-1})$

$E(X^2) - [E(X)]^2$

$Var\left(\frac{10}{X}\right)$

$E(2X+3)$

$2E(X)+3$

Mean of $X = \frac{6}{5}$

A bag contains 3 red and 2 white counters. 2 counters are drawn from the bag at random. X is the number of red counters drawn.

$Var(2X-3) = 3$

$10E(X^{-1})$

$E\left(\frac{10}{X}\right)$

$E(2X-3)$

Two fair dice are thrown. X is the number of sixes obtained.

3 fair cubic dice are thrown. X is the number of odds obtained.

$2.25E(X) - 1.75$

$Var(6X+5) = 10$

$2E(X) - 3$

$4Var(X)$

$Var(2X-3)$

$E(3-2X)$

$3-2E(X)$

$E(3X+2)$

$2+E(X)$

$E(3X-2)$

$3E(X)-2$

$Var(2-3X)$

$9Var(X)$

$E\left(\frac{9X-7}{4}\right)$

$E\left(\frac{4X+5}{2}\right)$

$2E(X)+2.5$