

Probability Analysis

X	-1 Tootsie	0 Tootsie	+2 Tootsie
P	6/10	18/100	22/100

$$\left(\frac{6}{10} \cdot (-1)\right) + \left(\frac{18}{100} \times (0)\right) + \left(\frac{22}{100} \times (2)\right) = -0.16$$

The expected loss for the player is around 0.16 tootsie rolls per game. Over 30 games, they will lose 4.8 tootsie rolls.

The house is the opposite. They will gain 0.16 tootsie rolls per game. Over 30 games, the house will gain 4.8 tootsie rolls.