$$P_{(H)} = \frac{1}{2}$$

$$P_{(\Box)} = \frac{1}{6}$$

$$P_{(face card)} = \frac{12}{52} = \frac{3}{13}$$

P(103) = 
$$\frac{2}{6} - \frac{1}{3}$$

Mutually Exclusive

Events that have nothing in Common

Rosult on one connot

affect the result of the other

P(Jack or Spade)
Not multivally exclusive
$$P(\text{face card or 2}) = P(\text{face card}) + P(z)$$

$$= \frac{3}{13} + \frac{1}{13} = \frac{4}{13}$$

$$P(z) = \frac{1}{13} + \frac{1}{13} = \frac{2}{13}$$

$$P(E) + P(Not E) = |$$

$$P(odd) + P(Even) = \frac{3}{6} + \frac{3}{6} = \frac{6}{6} = |$$

$$P(Not E) = | - P(E)$$

$$P(Not en Ace) = | - \frac{4}{50} = \frac{57}{52} - \frac{4}{52} = \frac{48}{52} = \frac{R}{13}$$

For 
$$Odds(E) = \frac{\text{favorable}}{\text{unfavorable}} = \frac{P(E)}{P(\text{Not } E)}$$

$$Odds(E) = \frac{t}{5} = \frac{1}{5} \qquad 1:5$$

$$cgainst \qquad \text{odds}(E) = \frac{\text{unfavorable}}{\text{favorable}}$$

$$Odds(E) = \frac{13}{39} - \frac{1}{3} \qquad 1:3$$

every \$4 you spend
you might courn \$1

Every 5 tiskets is swiner
No