3) Independente Tests to Save Your Boxing King Null Hypothesis Ho: Outcome of the match should be independent of the judge. Hi: Outcome of the match is dependent on the judge

	Judge A	Judge B	Judge C	Total
Playeal	72	50	24	146
	8	5	3	16
Drow	20	8	9	37
Loses	100	63	36	199
1 lotal	and the second s			

From the above table, grand total = 199 P(Player Wins) = Total Wins = 146 = 0.73

General Wins = 146 = 0.73

P(Judge A) = Total A = 100 = 0.374

Grand Total = 367 Expected frequency of Win Player 1 & & Judge A is = Total * P(win) * P(Judge A)

Sooni

 $\Rightarrow E_{ij} = \frac{T_{4j} \times T_{i4}}{T_{44}}$

Similarly, we populate the below table with expected frequencies:

	Judge A	Judge B	Judge C
11)	73.36	46. aa	26.41
Wins	8.04	5.065	2.89
Draw	18.54	11.71	6.693
Player 1 Loses		0 32	

 $Q_{0b5} = \frac{2}{8} \frac{2}{6} \left(\frac{E_{8}c}{E_{8}c} - Q_{8}c \right)^{2}$

(1902)	Exc	
Observed	Excepted	(E - O)2
. 72	73,36	0.0252
50	46.22	0.309
- 24	26.41	0.2199
8	8.04	0.00099
5	5.065	0,00083
3	a.89	0.0041
90	8.54	0.1069
8	11.71	1.175
Q	6,693	0.7951

$$\begin{array}{lll}
\text{Robs} &= 2.63702 \\
\text{de CDegree of } &= 3.63702 \\
\text{P-Value} &= P_{V} \left(\chi_{A}^{2} > 9060 \right) = 1 - P_{V} \left(\chi_{A}^{2} < 2.63702 \right) \\
&= 0.620283
\end{array}$$

As p-value (0.620283) > 0.05, We fail to reject the

We Accept Ho.

3) b) Pearson Correlation Coefficient

St. y =
$$\frac{Z}{Z}(x_1, \overline{x})(y_1, \overline{y})$$

Let

 $X_1 \rightarrow Number of Player Wins for Judge A for 10 days$
 $X_1 \rightarrow Number of Player Wins for Judge B$
 $Y_1 \rightarrow Number of Player Wins for Judge B$
 $Y_2 \rightarrow Number of Player Wins for Judge B$
 $X_1 \rightarrow Number of Player Wins for Judge B$
 $X_2 \rightarrow Number of Player Wins for Judge B$
 $X_1 \rightarrow Number of Player Wins for Judge B$
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 $X_1 \rightarrow Number of Player Wins f$$$$$$$$$$$$$$$$$$

X = 0.05 to meet 95% Confidence interval

Calculate Test Stabistic

$$\frac{7}{N} = 2.1 + 2.2 + ... = 20.21.5 + 24.5 + 18.5 + 17.2 + 14.5 + 23.2$$

$$\frac{7}{N} = 2.1 + 2.5 + 17.2 + 14.5 + 24.1$$

$$+ 20.5 + 19.4 + 18.1 + 24.1$$

$$+ 18.5$$

$$12$$

$$5 = \sqrt{\frac{2(\chi_1^2 - 2)^2}{n - 1}} = \sqrt{\frac{1.768 + 18.74 + 2.78 + 8.82 + 32.14 + 9.18 + 3.72 + 0.108 + 0.59 + 4.28 + 15.44 + 2.78}}{\sqrt{11}}$$

$$T = \frac{2 - u}{T/m} = \frac{(30.175 - 30)}{(30.175 - 30)} = 0.300.6$$

Step-3 tempo 9/ T>tn-1, \(\alpha \) geject to
$$t_{n-1}, \(\alpha = t_{11}, 0.05 = 1.796$$

$$t_{n-1}, \alpha = t_{11}, 0.005$$
 $t_{n-1}, \alpha = t_{11}, 0.005$

The t_{n-1}, α
 $0.2006 \neq 1.196$ we accept the Mull hypothesis

... We accept the Mull hypothesis