From a table you obtained by rolling a 6-sided die find out, if the die is not fair (N=36).
Use chi-2 test with the usual significance level.

Ho: the die
H1: the die

#	observed	expected	chi2
1	2	6	2.666667
2	5	6	0.166667
3	9	6	1.5
4	2	6	2.666667
5	7	6	0.166667
6	11	6	4.166667

36   11.33333 TEST VALUE χ

Alfa=   0.05
D.O.F=   5
critical
value=   11.0705

The null hypothese is rejected, we accept the H1, the die is not fair

is fair
is not fair

$$\chi^2 = \sum_{i=1}^{k} \frac{(O_i - E_i)^2}{E_i}$$

observed

1	2	3	4	5	6
2	5	9	2	7	11