Practice for Quiz 10

(The Quiz will be on Tuedsay, December 12) Math 125 Kovitz Fall 2023

A gambler is accused of using a loaded die, but he pleads innocent. A record has been kept of the last 210 throws. There is disagreement about how to interpret the data and a statistician is called in.

The observed frequencies for the six numbers on the die are summarized in this table.

Value	$Observed \\ frequency$	
1	22	A χ^2 -test of the null h pothesis that the die is fa was made. State P and the conclusion.
2	39	
3	42	
4	39	
5	40	
6	28	

The answer is on the following page.

Answer:

P is equal to 10%.

P is greater than 5%, so accept the null hypothesis.

Decision: the die is fair.