

Quiz 04

1. 10 samples of mice were taken to test whether the average weight of the mice differs from 25g.

Weight 17.6 20.6 22.2 15.3 20.9 21 18.9 18.9 18.9 18.2

Test the claim at 5% significance level.

2. A teacher wants to know examine the mean body weight of boys and girls in her class. She selects two random samples of boys and girls each of size 20 from the class and records their weights as follows:

Boy: (56,65,47,46,60,56,45,39,50,45,39,42,42,33,47,57,45,50,45,42)

Girl: (56,65,37,47,60,46,35,41,40,45,34,42,42,43,37,47,45,50,45,42)

Test whether the mean body weight of boys is greater than that of girls in her class at 5% significance level.