

Answer on Question #61575 – Math – Statistics and Probability

Question

To determine whether a new sleeping pill has an effect that varies with dosage, a researcher randomly assigns adult insomniacs, in equal numbers, to receive either 4 or 8 grams of the sleeping pill. The amount of sleeping time is measured for each subject during an 8-hour period after the administration of the dosage. What type of design is this, and what type of statistic is needed to analyze the data?

Solution

In this case we should use the Experimental Analysis with a completely randomized design and we need the t-statistic for comparing means of two groups.