

Homework Solutions

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Review Exercise 45

- (a) This is an experiment. The subjects in the two groups were given a skin cream and a capsule.
- (b) The explanatory variable is whether the person was given the skin cream or the capsule. The response variable is the status of the skin rash after 5 days.
- (c) Set the seed to 101 and then use `randInt(1,30)`. Press ENTER repeatedly until you have 15 different numbers. Those people go into the topical cream group and the remainder go into the capsule group. You should get the numbers 10, 14, 23, 12, 11, 18, 3, 25, 26, 22, 27, 24, 13, 2, and 4.
- (d) It is a statistic because it is a number that characterizes a sample.
- (e) The p -value must be greater than 5%, so two possible values are 0.10 and 0.15 (or any two numbers that are greater than 0.05 and less than 1.)