Example test 2

- 1. In average 20 customers visit the shop during one hour. The seller needs 5 minutes break. What is the probability, that during these 5 minutes no one visit the shop?
- 2. IQ of the nation can be modelled by normal distribution with expected value 100 and standard deviation 15. How many percent of the people have higher IQ than 135.
- 3. 10 people take a special diet. After two weeks of the diet the weights of people has changed according to the following table

Before	68	80	92	81	70	79	78	66	57	76
After	60	84	87	79	74	71	72	67	57	60

Had the diet influence on the weight on the significance level $\alpha = 0.05$?