

Serie 3

Exercise1 :

The number of paid workers in 20 food factories was studied, and the number of workers was distributed as follows:

3	5	4	2	3	1	3	5	2	1
3	2	2	4	3	2	4	1	4	3

1. What is a statistical population, a statistical unit?
2. What is the studied variable? And what type?
3. Create a frequency table according to the number of workers
4. Find the relative and percent frequency
5. What is the appropriate representation of this data? With interpretation of data
6. Find the ascending and descending cumulative frequency and represent it graphically.

Exercise 2:

The following frequency table contains the number of goals scored by teams in the football league last season.

7	6	5	4	3	2	1	Number of goals
2	9	16	13	2	5	2	ni

1. What is a statistical population?
2. What is the sample size studied?
3. What is the studied variable? What type?
4. Find the relative and percent frequency
5. What is the appropriate representation of this data? With interpretation of data
6. Find the ascending and descending cumulative frequency and represent it graphically

Exercise 3:

The following data represents the weekly wage in dinars for 50 workers in an institution.

42	34	54	42	34	51	42	38	30	25
28	53	35	47	38	52	26	50	40	39
32	36	41	53	36	41	31	35	41	34
48	38	46	29	46	45	37	45	44	37
27	43	47	31	40	44	45	44	33	40

1. What is a statistical population?
2. What is the studied variable? And what type? What is the sample size?
3. Find the class length using Sturge's rule
4. Find a frequency distribution table using the class length calculated previously
5. Find the relative and percent frequency.
6. What is the appropriate representation of this data?
7. Find the ascending and descending cumulative frequency and represent it graphically. What does the intersection point represent?

Exercise 4:

The following table shows the weight distribution of twenty employees in one institution

90-80	80-70	70-60	60-50	50-40	weight
2	4	7	3	4	Number of employees

1. What is the class length for this distribution?
2. Calculate the class center
3. Draw the histogram and frequency polygon
4. Find the ascending and descending cumulative frequency.
5. How many employees weigh less than 70 kg?
6. What is the number of employees whose weight is estimated at 70 kg or more?