INDEPENDENT WORK. Variant №1

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	15	40	25	15

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}99$.

INDEPENDENT WORK. Variant №2

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	2-12	12-22	22-32	32-42	42-52
m_i	5	20	35	25	15

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №3

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	8-18	18-28	28-38	38-48	48-58
m_i	5	15	50	20	10

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №4

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	1-11	11-21	21-31	31-41	41-51
m_i	5	25	30	25	15

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №5

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	6-16	16-26	26-36	36-46	46-56
m_i	10	25	35	20	10

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №6

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	9-19	19-29	29-39	39-49	49-59
m_i	5	15	50	20	10

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №7

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	7-17	17-27	27-37	37-47	47-57
m_i	5	20	40	30	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №8

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	6-10	10-14	14-18	18-22	22-26
m_i	5	10	60	10	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №9

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	16-20	20-24	24-28	28-32	32-36
m_i	5	20	50	20	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №10

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	8-14	14-20	20-26	26-32	32-38
m_i	5	15	35	30	15

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №11

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	18-24	24-30	30-36	36-42	42-48
m_i	15	25	40	15	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}99$.

INDEPENDENT WORK. Variant №12

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	4-10	10-16	16-22	22-28	28-34
m_i	15	25	35	20	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №13

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	14-20	20-26	26-32	32-38	38-44
m_i	10	20	50	15	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №14

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	10-18	18-26	26-34	34-42	42-50
m_i	15	25	30	25	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №15

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	12-18	18-24	24-30	30-36	36-42
m_i	5	25	40	25	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №16

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	14-24	24-34	34-44	44-54	54-64
m_i	10	20	50	15	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №17

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	16-26	26-36	36-46	46-56	56-66
m_i	5	30	40	20	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №18

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	13-23	23-33	33-43	43-53	53-63
m_i	15	30	35	15	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №19

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	17-27	27-37	37-47	47-57	57-67
m_i	5	25	45	20	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №20

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	18-28	28-38	38-48	48-58	58-68
m_i	5	20	55	15	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №21

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	12-22	22-32	32-42	42-52	52-62
m_i	10	25	50	10	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №22

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	15-25	25-35	35-45	45-55	55-65
m_i	15	15	40	25	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №23

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	22-32	32-42	42-52	52-62	62-72
m_i	5	20	45	25	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №24

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	29-39	39-49	49-59	59-69	69-79
m_i	5	15	40	25	15

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}99$.

INDEPENDENT WORK. Variant №25

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	20	35	25	15

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №26

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	15	50	20	10

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №27

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	25	30	25	15

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$;

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №28

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	10	25	35	20	10

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №29

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	15	50	20	10

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №30

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	20	40	30	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №31

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	10	60	10	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №32

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	20	50	20	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №33

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	15	35	30	15

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №34

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	15	25	40	15	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}99$.

INDEPENDENT WORK. Variant №35

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	15	25	35	20	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №36

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	10	20	50	15	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №37

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	15	25	30	25	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №38

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	25	40	25	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.

INDEPENDENT WORK. Variant №39

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	10	20	50	15	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}99$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}95$.

INDEPENDENT WORK. Variant №40

Task 1. Calculate the mean, the variance, the root-mean-square deviation, the corrected root-mean-square deviation, the mode, the median, the cumulative function F(x) and plot a histogram of relative frequencies for this series.

$x_i - x_{i+1}$	5-15	15-25	25-35	35-45	45-55
m_i	5	30	40	20	5

Construct: a) the confidence interval for $\bar{x}_{pop}$ the confidence probabilities $\gamma = 0{,}95$

b) the confidence interval for and S_{pop} with the confidence probability $\gamma = 0{,}999$.