Question

Two random variables (A and B) are both approximately normal (bell-shaped). Their means and standard deviations are shown in the table.

variable	mean	standard deviation
\overline{A}	94.5	10
B	106	15

Let the interval of typical measurements be defined as within 1 SD from the mean (mean \pm SD).

interval of typical measurements =
$$(\text{mean} - \text{SD}, \text{mean} + \text{SD})$$

For each variable, provide an interval of typical measurements. Notice that an interval requires two numbers: the bottom and the top.

Answerlist

- Determine the interval of typical measurements for A.
- Determine the interval of typical measurements for B.

Solution

Answerlist

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interval of typical measurements for
$$A=(\text{mean}-\text{SD},\,\text{mean}+\text{SD})$$

$$=(94.5-10,\,94.5+10)$$

$$=\boxed{(84.5,\,104.5)}$$

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interval of typical measurements for
$$B=(\text{mean}-\text{SD},\,\text{mean}+\text{SD})$$

$$=(106-15,\,106+15)$$

$$=\boxed{(91,\,121)}$$

Meta-information

extype: num exsolution: 10 exname: calc s