

Mathematical Statistics 2018/2019, Homework 2

Name and Surname Student's number

In the problems below, please use the following: as k – the sum of digits in your student's number; as m – the sum of the two largest digits in your student's number; and as n – the smallest digit in your student's number plus 1. For example, if an index number is 609999: $k = 42$, $m = 18$, $n = 1$.

Please write down the solutions (transformations, substitutions etc.), and additionally provide the final answer in the space specified (the answer should be a number in decimal notation, rounded to four digits).

2. A group of students were interviewed and asked about the number of times in the previous week that they used their debit card. The results are summarized in the table below:

Number of times	Number of students
$(0, n]$	$n + 3$
$(n, 2n]$	$4n$
$(2n, 3n]$	$m + 2$
$(3n, 4n]$	$k + 2$
$(4n, 5n]$	$k - 1$
$(5n, 6n]$	$m + n$

Approximate the mean, median and mode of the weekly number of debit card uses for the studied group.

ANSWER:

Mean:	Median:	Mode:
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Solution: