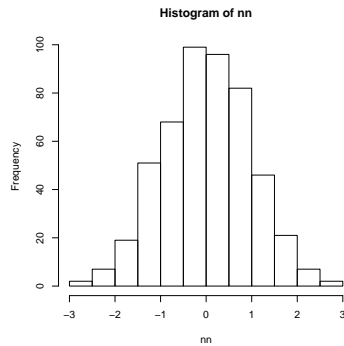


# Exam

31.07.2013

Name:	ID number:	Number of points:	STAT792
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- 1 [15] Data for variable nn are represented graphically.



- (a) Is standard deviation 1, 2 or 4?
- (b) Is mean -3, 0 or 3?
- 2 [0] NA
- 3 [5] The median value of the following data 33, 3, 7, 15, 107, 1, 41 is
- (a) cannot be calculated
- (b) 15
- (c) 29.6
- (d) 16
- 4 [5] Which of the following is a measure of central tendency?
- (a) frequency
- (b) range
- (c) mode
- (d) variance
- (e) standard deviation
- (f) coefficient of correlation
- (g) mean
- (h) median
- 5 [10] Calculate the mean of the following data: 1,8,1,9
- (a) 4.75
- (b) does not exist
- (c) 4.5
- (d) 5.75

6 [15] A genetically modified mouse does not survive the first month of life with probability 0.40.

- (a) We planned an experiment that included 10 mice. What is the probability that after a month not more than a mouse will survive?
  
- (b) What is the expected number of mice still alive after the first month?

**Good luck!**