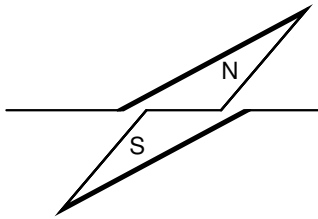

MATEMATIK F2

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Tekst til opgaver i afsnit 24.6 i 7. ed. (23.3 i 8. ed.):

Opgave 11: Find a 95% confidence interval for the percentage of cars on a certain highway that have poorly adjusted brakes, using a random sample of 500 cars stopped at a roadblock on that highway, 87, of which had poorly adjusted brakes.

Opgave 14: Assuming that the population from which the following sample is taken is normal, determine a 95% confidence interval for the variance σ^2 of the population: Ultimate tensile strength (k psi) of alloy steel (Maraging H) at room temperature: 251, 255, 258, 253, 253, 252, 250, 252, 255, 256.

Opgave 17: If X is normal with mean 27 and variance 16, what distributions do $-X$, $3X$, and $5X - 2$ have?

Tekst til opgaver i afsnit 24.10 i 7. ed. (23.7 i 8. ed.):

Opgave 1: If in rolling a die 180 times we get $1, \ldots, 6$ with the absolute frequencies 25, 31, 33, 27, 29, 35, can we claim on the 5% level that the die is fair?

Opgave 2: Solve Prob. 1 if the sample is 39, 22, 41, 26, 20, 32.