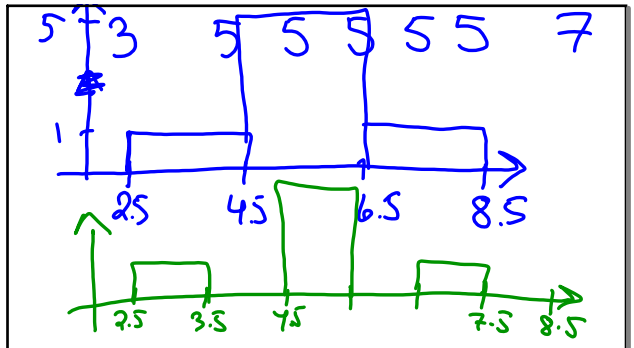
3 5 5 5 5 5 7

Q_1 M Q_3

-2 2

$\text{Var} = \frac{2^2+0+\ldots+0+2^2}{6} = 4/3$

$\text{sd} = \sqrt{4/3}$



1.65 1.68 1.72 1.75

Median = Gj.snitt: 1.70

165 168 172 175

Median Gjsnitt = 170

3 5 5 5 7

$y = 2x + 3$

9 13 13 13 17

11

Gjsnitt: $\frac{\sum x}{n}$

$y = ax + b$

$\bar{y} = \frac{\sum(ax+b)}{n} = a\bar{x} + b = a\bar{x}+b$

$y = ax + b$

$\sigma_x = 5\,cm$

$\sigma_y = 0.05\,m$

$\sigma_x^2 = \frac{(x-\bar{x})^2}{n-1}$

$\sigma_y^2 = \frac{(y-\bar{y})^2}{n-1}$

$= \frac{(ax+b-(a\bar{x}+b))^2}{n-1}$

$= \frac{(a(x-\bar{x}))^2}{n-1}$

$= a^2 \frac{(x-\bar{x})^2}{n-1} = a^2 \cdot \sigma_x^2$

$\sigma_y^2 = a^2 \cdot \sigma_x^2$

$\sigma_y = |a| \cdot \sigma_x$

$0.05\,m = \frac{1\,m}{100\,cm} \cdot 5\,cm$