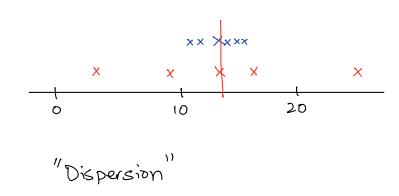
Dispersion

14 18 18 18 14 14 14 18

Mean: 16 Median 16

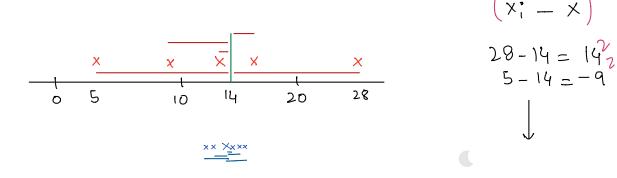
> 16 16 16 16 16 16 16 16

Mean: Median: 16



"Average distance of values from mean"

$$\overline{X} = (\sum_{i=1}^{N} x_i)/N$$



$$\begin{pmatrix} x_1^2 - \overline{x} \end{pmatrix}^2$$

$$28 - 14 = 14^2$$

$$5 - 14 = -9$$

$$\downarrow$$

(

$$\int_{i=1}^{N} (x_i - \overline{x})^2$$
"variance"

variance units: m²

Solution: Square root!

Standard Deviation:

"Square root of

average square distances of values from the mean"

"How far away are values from the mean ..."

How large is SD?

1s 10.7 large? How about 1094?

- Depends on the mean ...

$$\frac{10.7}{100} \times 100 = 10.7$$

$$\frac{1004}{7100,000}$$
 × 100 = 1.09

Coefficient of variation: 5 * 100 x " Relative measure of deviation."