

Stichprobe Boxplot

Median

4, 5, 5, 10, 10, 11, 11, 12,
12, 13, 13, 14, 15, 15, 25, 27

4 | 4 | 5 | 8 | 9 | 10

$$\begin{aligned} &\uparrow \\ &\text{Median} \\ &= \frac{5+8}{2} = \underline{\underline{6.5}} \end{aligned}$$

$$N=16$$

$$q_{0.25} \quad q_{0.75}$$

$$N \cdot 0.5 = 8, \text{ geradzahlig} \quad q_{0.5} = \frac{12+12}{2} = 12$$

$$N \cdot 0.25 = 4, \quad q_{0.25} = \frac{10+10}{2} = 10$$

$$N \cdot 0.75 = 12, \quad q_{0.75} = \frac{14+15}{2} = 14.5$$

$$1.5 \cdot \text{IQR} = 1.5 \cdot (14.5 - 10) = \underline{\underline{6.75}}$$

$$\text{obere Whisker, max. } 14.5 + 6.75 = 21.25$$

$$\Rightarrow \text{wähle Datenpunkt } \underline{\underline{15}}$$

$$\begin{aligned} \text{untere Whisker: min } & q_{0.25} - 1.5 \cdot \text{IQR} \\ &= 10 - 6.75 \\ &= 3.25 \end{aligned} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \begin{array}{l} \text{wähle} \\ \text{Datenpunkt } \underline{\underline{4}} \end{array}$$

