

Aufgabe 9

a)

2; 4; 4; 5; 6; 7; 10

Minimum und Maximum:

$$x_{min} = 2$$

$$x_{max} = 10$$

Spannweite:

$$r = 10 - 2 = 8$$

Median:

~~2~~; ~~4~~; ~~4~~; 5; ~~6~~; ~~7~~; ~~10~~

$$\tilde{x} = 5$$

Unteres Quartil:

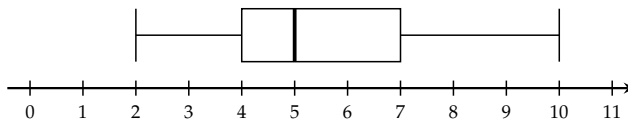
~~2~~; 4; ~~4~~

$$\tilde{x}_{0,25} = 4$$

Oberes Quartil:

~~6~~; 7; ~~10~~

$$\tilde{x}_{0,75} = 7$$



b)

76; 105; 116; 88; 76; 122; 84; 116

Aufsteigend sortiert:

76; 76; 84; 88; 105; 116; 116; 122

Minimum und Maximum:

$$x_{\min} = 76$$

$$x_{\max} = 122$$

Spannweite:

$$r = 122 - 76 = 46$$

Median:

~~76; 76; 84; 88; 105; 116; 116; 122~~

$$\tilde{x} = \frac{88 + 105}{2} = 96,5$$

Unteres Quartil:

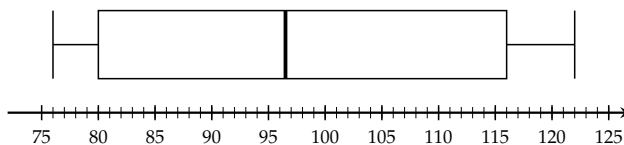
~~76; 76; 84; 88~~

$$\tilde{x}_{0,25} = \frac{76 + 84}{2} = 80$$

Oberes Quartil:

~~105; 116; 116; 122~~

$$\tilde{x}_{0,75} = \frac{116 + 116}{2} = 116$$



c)

26; 19; 16; 30; 9; 7; 10; 22; 15; 31; 34; 13

Aufsteigend sortiert:

7; 9; 10; 13; 15; 16; 19; 22; 26; 30; 31; 34

Minimum und Maximum:

$$x_{min} = 7$$

$$x_{max} = 34$$

Spannweite:

$$r = 34 - 7 = 27$$

Median:

~~7; 9; 10; 13; 15; 16; 19; 22; 26; 30; 31; 34~~

$$\tilde{x} = \frac{16 + 19}{2} = 17,5$$

Unteres Quartil:

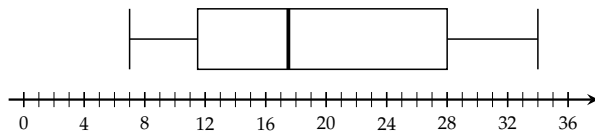
~~7; 9; 10; 13; 15; 16~~

$$\tilde{x}_{0,25} = \frac{10 + 13}{2} = 11,5$$

Oberes Quartil:

~~19; 22; 26; 30; 31; 34~~

$$\tilde{x}_{0,75} = \frac{26 + 30}{2} = 28$$



Aufgabe 10

25; 37; 95; 43; 55; 20; 11

Aufsteigend sortiert:

11; 20; 25; 37; 43; 55; 95

Minimum und Maximum:

$$x_{min} = 11$$

$$x_{max} = 95$$

Median:

~~11~~; ~~20~~; ~~25~~; 37; ~~43~~; ~~55~~; ~~95~~

$$\tilde{x} = 37$$

Unteres Quartil:

~~11~~; 20; ~~25~~

$$\tilde{x}_{0,25} = 20$$

Oberes Quartil:

~~43~~; 55; ~~95~~

$$\tilde{x}_{0,75} = 55$$

