

7:
 A sample matrix that is free of active substances is spiked with an active ingredient. The active ingredient has a certified purity of 98.0%. Three samples with different amounts of spiked active ingredient have been prepared. The analysis gave the following results:

	Added amount of active ingredient with $w(\text{active ingredient}) = 98,0\%$	Found amount of active ingredient		
	100 mg	99,8 mg		
	200 mg	192,4 mg		
	300 mg	278,5 mg		
1. Calculate the recovery rate RR (in %) for each case 2. Specify how the found deviation of the above stated process is called				
1)	Added amount of active ingredient with $w(\text{active ingredient}) = 98,0\%$	Found amount of active ingredient	RR	
	100 mg	99,8 mg		
	200 mg	192,4 mg		
	300 mg	278,5 mg		
2)				



8:

For the calibration of a process the fall time (in s) of a ball in the Höppler viscometer was measured ten times. From the measured values given below the following values are to be calculated:

- Arithmetic average \bar{x}
- Median M
- Span width R
- Standard deviation s
- Variation coefficient VC (relative standard deviation RSD)

Measured values:

85.6	86.3
84.7	85.2
83.5	86.0
84.8	84.9
85.1	84.1

