



Englische Übungen zu Statistik – verschiedene Darstellungen

1. A dice is thrown. The thrown numbers are listed below.
 - a. What is the frequency of each number?
 - b. Calculate the relative frequency of each number in %.

3	5	6	1	5	1	3
6	5	4	2	4	3	3
5	1	4	6	2	5	

2. Find the mean, the median und the mode of the set of data.
 - a. 10, 14, 14, 14, 15, 16, 18
 - b. 5, 5, 20, 20, 20, 23, 26, 29, 31, 31, 31, 35
 - c. 4999, 5000, 5001, 5002, 5003





3. Decide, if the mean, median or the mode of this set of data is a meaningful value.
- Favourite sport of a group of friends: football, tennis, football, ice skating, skiing, football, skiing, ice hockey
 - Weight of a new born baby: 3100 g, 3050 g, 3180 g, 3220 g

Vocabulary

Englisch	Deutsch
frequency	absolute Häufigkeit
relative frequency	relative Häufigkeit
set of data	Datenreihe
mean	arithmetisches Mittel
mode	Modus
median	Median
meaningful value	sinnvoller Wert
to throw a dice	einen Würfel werfen
listed	aufgelistet





Solutions

1.

number	frequency	percentage frequency
1	3	15 %
2	2	10 %
3	4	20 %
4	3	15 %
5	5	25 %
6	3	15 %

2.

- mean: 14.43; mode: 14; median: 14
- mean: 23; mode: 20, 31; median: 24.5
- mean: 5001; mode: none; median: 5001

3.

- The mean makes no sense, the median either. The mode is football. It means that football is the favourite sport of the whole group.
- The mean 3137.5 g makes sense. The median is 3140 g and shows the central value. The mode makes no sense, because no value occurs more than one time.

