Sometimes, Always, Never – Statistics - Answers

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| ALWAYS | SOMETIMES  If the data is DISCRETE (e.g. you can count it, as in favourite colours, pets, etc.) then there should be gaps between the bars. If the data is CONTINUOUS (i.e. measurements, length, weight, etc.) then there should not be gaps. | NEVER  Tally marks should always be in bundles of 5. |
| SOMETIMES  Each picture could stand for one, two, five, ten, etc. things. That’s why you need a key. | NEVER  Reading from left to right, the symbol < means ‘less than’. | NEVER  Reading from left to right, the symbol > means ‘more than’. |
| NEVER  The numbers must be in order first:  2, 3, 4, 5, 6  The middle one is now the median (4). | NEVER  Time always goes along the horizontal axis. | SOMETIMES  Bus, train and flight timetables are always in 24-hour format. A school timetable probably uses a.m. and p.m. times. |
| ALWAYS  No number occurs more than once. | NEVER  If there is an even number of values, then the median is the mid-point of the middle pair. Here the median is 5.5. | ALWAYS  Otherwise you don’t know how many things each picture stands for. |
| ALWAYS  The total of the four numbers is 22. 22 divided by 4 is 5.5. | SOMETIMES  The mean and mode of the numbers 3, 4, 4, 5 are both 4. The mean of the numbers 3, 3, 4, 6 is 4 but the mode is 3. | SOMETIMES  The median of the numbers 3, 4, 4, 5 is 4, which is in the set. The median of the numbers 3, 4, 5, 6 is 4.5, which is not in the set. |