

Product Domain Glossary

Average	The arithmetic mean of a collection of numbers. That is, letting v_1, v_2, \dots, v_n denote n numbers, the average is defined as $\sum_i v_i / n$. For example, the average of the numbers 8.0, 7.0, and 8.5 is $(8.0 + 7.0 + 8.5) / 3 = 23.5/3 = 7.833$.
Dropped	A score is said to be dropped when it is not included in subsequent calculations. For example, in many competitions it is common to drop the highest and lowest score.
Empty	A collection is said to be empty if it does not contain any elements.
Ignored	When a value is ignored it does not enter into the calculation in any way. For example, if missing values are ignored then the total of the numbers 8.0, Missing, and 7.0 is $(8.0 + 7.0) = 15.0$ and the average is $15.0 / 2 = 7.5$.
Invalid Weight	A weight that does not have an appropriate numeric value. Invalid weights may be handled differently in different situations. For example, they may be ignored or they may be treated as 1.
Missing Value/Score	A score that does not have a numeric value. Missing values/scores may be handled differently in different situations. For example, they may be ignored or they may be treated as 0.
Missing Weight	A weight that does not have a numeric value. Missing weights may be handled differently in different situations. For example, they may be ignored or they may be treated as 1.
Position	The diver's body position. There are five traditional positions, Straight (A), Pike (B), Tuck (C), Free (D), and Fly (E).
Score	A labeled numeric score for a competition of some kind (e.g., a sporting event, a talent show). The label is referred to as the key and the numeric score is referred to as the value .
Total	The sum of a collection of numbers. That is, letting v_1, v_2, \dots, v_n denote n numbers, the total is defined as $\sum_i v_i$. For example, the total of the numbers 8.0, 7.0, and 8.5 is $(8.0 + 7.0 + 8.5) = 23.5$.

Unspecified Weight	A weight is said to be unspecified for a particular key when there is no weight that corresponds to that key. For example, in a diving system, a degree of difficulty is a weight. If there is no degree of difficulty that corresponds to a particular dive then the degree of difficulty is said to be unspecified.
Weight	A number by which another number will be multiplied. For example, in a diving system, each dive has a degree of difficulty and the score on the dive is multiplied by its degree of difficulty (which is a weight).
Weighted Average	Letting v_1, v_2, \dots, v_n denote n numbers and w_1, w_2, \dots, w_n denote corresponding weights, the weighted average is defined as $\sum_i (w_i v_i) / \sum_i w_i$.
Weighted Total	Letting v_1, v_2, \dots, v_n denote n numbers and w_1, w_2, \dots, w_n denote corresponding weights, the weighted total is defined as $\sum_i w_i v_i$.