

Percentile

Definition 1: A **Percentile** is a measure that tells us what percent of the total frequency scored **at or below that measure**. A *percentile rank* is the percentage of scores that fall **at or below** a given score.

Definition 2: A **Percentile** is a measure that tells us what percent of the total frequency scored **strictly below that measure**. A *percentile rank* is the percentage of scores that fall **below** a given score.

Formula:

To find the percentile rank of a score, ***x***, out of a set of ***n*** scores, where ***x*** is included:

$$PR = \frac{(B + 0.5E)}{n} \cdot 100$$

Where

PR = Percentile Rank

B = number of scores below *x*

E = number of scores equal to *x*

n = number of scores

Formula:

To find the percentile rank of a score, ***x***, out of a set of ***n*** scores, where ***x*** is not included:

$$PR = \frac{B}{n} \cdot 100$$

Where

PR = Percentile Rank

B = number of scores below *x*

n = number of scores

Keep in mind:

1. There is no universally accepted/agreed definition of percentile.
2. Percentile ranks are usually written to the nearest whole percent.
3. Data is sorted on ascending order that is from lowest to highest.