

Percentile Rank for Ungrouped Data

The percentile corresponding to a given value X is computed by:

Percentile = $\frac{\text{number of values below } X + 0.5}{\text{total number of values}} \times 100$

Practice Exercises

Solve the following problem completely.

Given 50 multiple-choice items in their final test in Mathematics, the scores of 16 students are the following:

28	46	22	20	18	34	36	35
45	48	16	22	27	31	30	25

Calculate the percentile rank of the student who obtained each score.

1.

20
2.

31
3.

28
4.

45
5.

36

Problem Set

The scores of 22 students in a Math quiz are: 22, 23, 21, 25, 24, 22, 18, 24, 24, 26, 24, 20, 22, 22, 32, 15, 24, 29, 27, 22, 24, and 28.

Calculate the percentile rank of the student who obtained each score.

1.

21
2.

20
3.

18
4.

25
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