RapidTables

Weighted Average Calculator

Weight	Data value
4	100
4	95
4	86.6666
4	65
4	86
4	100
4	95
4	74
4	74
4	75
1	100
0	
29	0

[= Calculate] [× Reset] [+ Add Row]

Weighted average

> 50.03809143

Sum of weights

> 70

Calculation

> (4×100+4×95+4×86.6666+4×65+4×86+4
> ×100+4×95+4×74+4×74+4×75+1×100+0
> ×+29×0) /

[Average calculator ►](#)

Weighted average calculation

The weighted average (x) is equal to the sum of the product of the weight (w_i) times the data number (x_i) divided by the sum of the weights:

$$\overline{x} = \frac{\sum_{i=1}^{n} w_i \cdot x_i}{\sum_{i=1}^{n} w_i} = \frac{w_1 x_1 + w_2 x_2 + ... + w_n x_n}{w_1 + w_2 + ... + w_n}$$

Example

Find the weighted average of class grades (with equal weight) 70,70,80,80,80,90:

Since the weight of all grades are equal, we can calculate these grades with simple average or we can count how many times each grade annear and use weighted average