

Weighted Average Calculator

Weight	Data value
<input type="text" value="4"/>	<input type="text" value="100"/>
<input type="text" value="4"/>	<input type="text" value="95"/>
<input type="text" value="4"/>	<input type="text" value="86.6666"/>
<input type="text" value="4"/>	<input type="text" value="65"/>
<input type="text" value="4"/>	<input type="text" value="86"/>
<input type="text" value="4"/>	<input type="text" value="100"/>
<input type="text" value="4"/>	<input type="text" value="95"/>
<input type="text" value="4"/>	<input type="text" value="74"/>
<input type="text" value="4"/>	<input type="text" value="74"/>
<input type="text" value="4"/>	<input type="text" value="75"/>
<input type="text" value="1"/>	<input type="text" value="100"/>
<input type="text" value="0"/>	<input type="text" value=""/>
<input type="text" value="29"/>	<input type="text" value="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 (\bar{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:

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

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 appear and use weighted average

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