Lesson 3 Weighted Mean

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A weighted mean includes the weight of each value in a set of data.

ie. the way your math mark is calculated

(Tests 40%, Assignments 40%, Exam 20%)

Example 1

a.) The table shows Tyler's math marks. Determine his average mark.

Course Work	Mark (%)
Homework	90
Quizzes	62
Projects	68
Exams	75
Presentations	85

b.) Tyler's teacher uses a weighted mean to determine final marks. Determine his weighted mean based on the weights in the chart.

Course Work	Counts for (%)	
Homework	10	
Quizzes	20	
Projects	15	
Exams	. 50	
Presentations,	5	

marks	×,	weight)	
90	1	10	900	
62		20	1240	
68		15	1020	
75		50	3750	
85		5	425	
Sum		100	7335	

add

Weighted Mean =
$$\frac{\text{sum of values } x \text{ their weight}}{\text{sum of weights}}$$

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Example 2

Jenn ranks job applicants from 1 to 5 in four different categories as shown in the chart.

Category	Avery	Bryn
Education	4	3
Experience	5	2
Communication	2	4
Leadership	2 .	-3

a.) Determine the mean score for each applicant.

Avery
$$\frac{4+5+2+2}{4} = 3.25$$

b.) If Jenn assigns the following weights to each category, determine each applicant's weighted mean.

Category	Weight
Education	10
Experience	5
Communication	20
Leadership	15
Total	(50)