

Unit 4 Lesson 2 – Weighted Mean

Weighted Mean

To calculate a final **percent for weighted factors**, use formula:

Ex.1 A college teacher uses a weighted mean to calculate her students' marks. Tom's and Steve's marks are shown along with the weighting factors (category weights).

Quiz – 25%

Test – 40%

Summative Project – 15%

Final Exam – 20%

Component	Tom's Mark	Steve's Mark
Quiz (out of 30)	26	20
Test (out of 80)	70	64
Summative Project (out of 120)	112	110
Final Exam (out of 100)	85	90

1. Convert the scores/marks to percents.

Tom	Steve
Quiz	Quiz
Test	Test
Summ.Proj.	Summ.Proj.
Final Exam	Final Exam

2. For each student, multiply each percent by the weighting factor, find the sum of all the category weights, and then divide this sum by the sum of the weights.

3. Who had the better overall mark as a percent and by how much?