C2 Weighted Mean

- calculate the weighted mean.

- compare mean and weighted mean.

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Warm Up

A student achieves the following marks in each of the units of her math course.

Determine the average mark for the student.

Probability & Statistics	80%
Linear Relations	70%
Number	65%
Geometry	78%
Measurement & Trig	84%

What is the weighted mean, if each unit has the following weightings?

- Probability & Statistics counts for 10%
- Linear Relations counts for 30%
- Number counts for 35%
- Geometry counts for 15%
- Measurement & Trig counts for 10%

Apr 18-11:28 AM

Your Turn

The table shows Janelle's history marks: (MathAtWork12 pg. 75)

Course Work	Mark (%)
Homework	80
Quizzes	77
Projects	75
Oral Presentations	82
Exams	72

a) What is the average of Janelle's marks?

b) What is the weighted mean, if each subject has the following weightings?
- homework counts for 20%
- quizzes count for 20%
- projects count for 10%
- oral presentations count for 10%
- exams count for 40%

c) Which gives Janelle a higher mark, the mean or the weighted mean? Explain.

Apr 18-11:28 AM

Case Studies

With a partner complete one of the case studies provided.

Once completed, find a pair that did a different
case study and take turns presenting your cases.

Practice:　　pg. 75: 2,5

Apr 18-11:28 AM