Participation Quizzes

Instructions

1. **In class**, answer the quiz as best you can and submit a solution where you explain your work.
   1. Use any medium you like for this; writing by hand and taking a picture, using an equation editor, drawing equations on a tablet, coding etc. as long as it all gets pasted into a Word file.
   2. Add your answer to this word file and submit to the Participation Quizzes assignment dropbox on Avenue.
2. (Optional) **Before the next class**: improve and submit an updated solution (that also makes it into Word).
   1. Unlike the during class solution, you can learn to understand this better by working with others, getting help from office hours, use the internet, etc. as long as what you finally submit is your own work.
   2. Same expectations for format, except that where things change from your first solution you should make an effort to explain what's changed.
   3. This is due *before* the next class, because we'll *take up* the quiz at the start of the next class.
3. Reflection:
   1. Write up your brief summary of the key content points from that lecture; ideally no longer than this logistics explanation. Due with your *next* quiz submission.
4. Score:
   1. Give yourself a grade on the 5 items listed below; due with your *next* quiz submission.

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| --- |
| In-Class Solution: \_\_%/30%   1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_% 2. 10%: What fraction of the quiz did you have the correct ***process*** for during class? \_\_% 3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%   Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%   1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%   Reflection: \_%/30%   1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%   Total: \_\_% |

Notes:

* If you miss attending the class in-person for any reason, you *can still* watch the lecture video and submit a Take-Home solution of the quiz question and a Reflection on the lecture, earning up to a max of 70% as long as you submit them by their normal due dates (before the start of the next class for the Take-Home solution, and before the end of it for the Reflection, which likely means you'll submit both of them by the start of that class).
* Additionally, if you miss class you can submit your Score Calculation for the previous quiz with your next quiz submission; e.g., next Take-Home solution, or within 24 hours after the last class if there are no more quizzes.
* Academic dishonesty (e.g., collaborating with someone on the individual parts, submitting work you didn't produce, incorrect scorning, etc.) will result in a zero on all quizzes.

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| Lecture 1 |

## In-Class Solution

B, because the cost per apple decreases as you buy more, which means the value of each additional apple is higher due to the lower price, therefore, the marginal net value increases.

## *(Optional)* Take-Home Solution

E. Because the marginal value of the additional apple will always be higher due to the fact that the additional apple will yield the price that has higher value than value of one apple.

## Reflection

$$

\text{Net value = [Benefit] - [Cost]}

$$

- relativity

- perspective: $\text{(Benefit - Cost)}\_{\text{client}}$

$$

\text{Benefits}\_{\text{client}} > \text{Sale Price} > \text{Cost}\_{\text{producer}}

$$

$$

\text{System Net Value =} \space \text{Benefits}\_{\text{client}} - \text{Cost}\_{\text{producer}}

$$

$$

\text{NVF = Benefits - Cost of space - Cost of time - ...}

$$

Often times the net value function should have matching unit or conversion

## Score

In-Class Solution: 30%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? 10%
2. 10%: What fraction of the quiz did you have the correct process for during class? 10%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? 10%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): 30%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → 30%

Reflection: 30%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – 30%

Total: 90%

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| Lecture 2 |

## In-Class Solution

The net value of the change would be 4 dollars cheaper than the previous designed and you should change this order, since it would save 5$ from grad student time, while paying extra 1$ for more batch.

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? 10%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 3 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 4 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 5 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 6 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 7 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 8 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 9 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 10 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 11 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 12 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 13 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 14 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 15 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 16 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 17 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 18 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 19 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 20 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%

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| Lecture 21 |

## In-Class Solution

## *(Optional)* Take-Home Solution

## Reflection

## Score

In-Class Solution: \_\_%/30%

1. 10%: What fraction of the quiz did you ***answer*** correctly during class? \_\_%
2. 10%: What fraction of the quiz did you have the correct process for during class? \_\_%
3. 10%: What fraction of the quiz did you put your best ***effort*** towards during class? \_\_%

Take-Home Solution (AKA Updated Solution or your In-Class Solution again, if no resubmitted one): \_\_%/40%

1. 40%: What fraction of the quiz have you ***now correctly solved***with work that's your own? → \_\_%

Reflection: \_%/30%

1. 30%: What fraction of the content have you summarized very well here in your own words? – \_\_%

Total: \_\_%