

Quiz 14

1. A group of three friends are sharing a passover meal. Their values for the components of the meal:

	Motzah	Latkes	HB Eggs
<i>A</i>	1/4	0	3/4
<i>B</i>	2/3	1/3	0
<i>C</i>	1/6	1/2	1/3

2. Consider the following two cuts

- (a) Give *A* all the Hard Boiled Eggs and split the Motzah and Latkes evenly (in half) between *B* and *C*. What is each players value for their own slice? (2 pts)

A : _____ *B* : _____ *C* : _____

- (b) Give *A* all the HB Eggs, give *B* all the Motzah, and give *C* all the Latkes. What is each players value for their own slice? (2 pts)

A : _____ *B* : _____ *C* : _____

3. Is one of cuts (2a) or (2b) objectively better than the other? (1 pt) Circle One: Yes No

4. From your work above, can you conclude that cut (2a) is pareto-optimal? (1 pt)

Circle One: Yes No

5. From your work above, can you conclude that cut (2b) is pareto-optimal? (1 pt)

Circle One: Yes No

6. Circle T if the claim is true, F if the claim is false. (1 pt each)

- (a) Every equitable division is fair. T F
- (b) For the example above, the equal division is pareto-optimal. T F
- (c) Every pareto-optimal division is envy-free. T F