

Name:

Quiz 9

1. True or False: All equitable divisions are fair.
2. Suppose two people (A and B) are dividing a pie with four components, using the Brams/Taylor Adjusted Winner method. The table below lists the players' values.

(a) Compute the valuation ratios for each component to complete the table.

	G	H	L	M
A	.1	.7	.1	.1
B	.4	.1	.1	.4
$\frac{a_i}{b_i}$				

(b) Now arrange the dots in the correct order, and draw the threshold line for $r = 3$.

Describe the division that results by filling in the blanks for which components each gets:

A gets _____ worth _____ B gets _____ worth _____

Is this division fair?

Is it equitable?

Is it envy-free?

Is it Pareto-optimal?

Name: Solutions

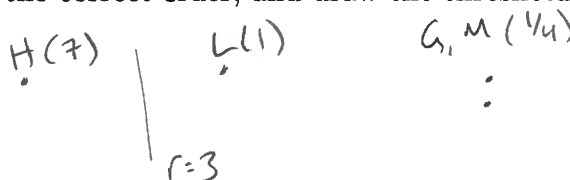
Quiz 9

- True or False: All equitable divisions are fair. False
- Suppose two people (A and B) are dividing a pie with four components, using the Brams/Taylor Adjusted Winner method. The table below lists the players' values.

(a) Compute the valuation ratios for each component to complete the table.

	G	H	L	M
A	.1	.7	.1	.1
B	.4	.1	.1	.4
$\frac{a_i}{b_i}$	$\frac{1}{4}$	7	1	$\frac{1}{4}$

(b) Now arrange the dots in the correct order, and draw the threshold line for $r = 3$.



Describe the division that results by filling in the blanks for which components each gets:

A gets H worth .7 B gets L, G, M worth .9

Is this division fair? Yes

Is it equitable? No.

Is it envy-free? Yes

Is it Pareto-optimal? Yes