

Name: Solution

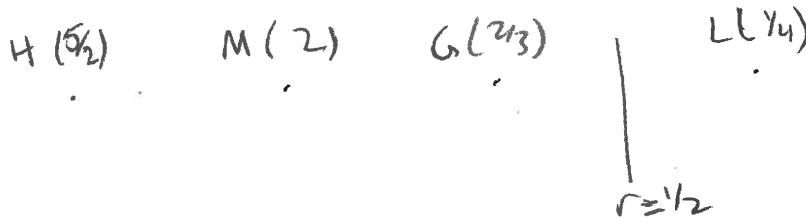
Quiz 9

Two people (A and B) are dividing a pie with four types of berries, using the Brams/Taylor Adjusted Winner method. The table below lists the values each player has for each flavor.

1. Compute the valuation ratios for each flavor, to complete the table.

	G	H	L	M
A	.2	.5	.1	.2
B	.3	.2	.4	.1
$\frac{a_j}{b_j}$	$\frac{2}{3}$	$\frac{5}{2}$	$\frac{1}{4}$	2

2. Set up the dots in the correct order, and draw the threshold line for $r = \frac{1}{2}$.

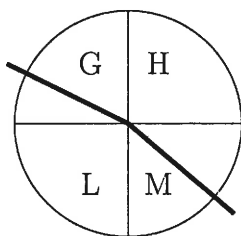


3. Describe the division that would result (who gets what), and what each person thinks they get as a fraction of the whole.

A gets M, H, G, worth .9
 B gets L, worth .4

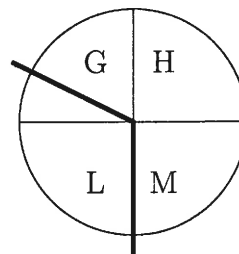
4. Is this division...
 ...fair? NO
 ...equitable? NO
 ...Pareto-optimal? YES!

5. Still considering with the same example as described in question 1 above, could the following divisions be Pareto-optimal?



yes or no?

NO



yes or no?

YES