Compensation Worksheet #3 October 26, 2018 2 Points

~ .			
Lirci	ρ	one	name

	F 1 1 2		•
Name: _	Solutions	Name:	Name:

Last time we helped Brian, Stewart and Peter divide some office equipment using Knaster's method. Recall that for the final settlement using Knaster's method, Brian received the printer and \$55 cash. Stewart received the copier and paid \$75. Peter received the cabinet and desk and \$20 cash.

	Brian	Stewart	Peter
cabinet	\$60	\$65	\$80
desk	\$35	\$30	\$40
printer	\$90	\$70	\$50
copier	\$200	\$220	\$200

1. For the final settlement using Knaster's above, find the net value of the winnings for each person.

- 2. A person's XB ratio is the fraction of their compensation over their total bid: x_{person}/b_{person} . Find the XB ratio for each person.
 - (a) XB ratio for Brian $\frac{145}{385} = 0.377$
 - (b) XB ratio for Stewart $\frac{745}{365}$ = 0.377
 - (c) XB ratio for Peter $\frac{i40}{3.20} = 0.378$
- 3. The x-values above tell us what Brian's settlement is worth to Brian, and what Peter's settlement is worth to Peter, etc.. Now well find perceived values from other points of view.

Envy odens when (a) What is Brian's settlement worth to Peter? Does Peter envy Brian? (Compare your calculation of Peter's opinion of Brian's settlement to x_{Peter} you found above.

Which would Peter rather have?) To feter: Printer + \$ = \$50 + 55 = \$105 is Brien's compensation

(b) What is Peter's settlement worth to Brian? Does Brian envy Peter? because Pater views his x as

To Brian: Corbinet + Dosh + & = 160 + 35 + 20 = 115 < 1145

(c) What is Stewart's settlement worth to Peter? Does Peter envy Stewart?

To Peter: Copler + & = 200 + (-75) = 1125

125 < 140, 50 Peter does not envy stewart

one person colombites unother's compensation (x) using their own reducations and comes