Homework 3 Solutions

	15,1	52	53
A	38%	28%	34%
B	33 3%	33 3%	3336
<u>~</u>	34%	40%	26%
	\		

Fair Share threshold = = 3 = 33 3 %

Fair Shares A151,53 B: S1, S2, S3 C: S1, S2

Fair Divisions (i) A:S, B:S3, C:Sa (ii) A:53, B:51, C:52

(iii) A: 53, B:52, C:5,

Value of FD

(i) 38% 333% 40%

= envy-free and efficient ((ii) 34% 333% 40% (iii) 34% 333% 34% and efficient

a not efficient

	15,	Sz	53	54
A	20%	32%	28%	20%
B	25%	25%	25%	25%
C.	15%	1550	30%	40%
0/	24%	24%	24%	28%

Fair Shave threshold = = = 25%

Fair Shares A: S2, S3 B: 51, 52,53,54 C: S3, S4 D: 54

- · Not envy-free since C doesn't
- o Efficient because its the only fair Div (nothing to compare to)

	5.	52	53	54_
	\$3/	\$5	\$5	\$3/
T	\$4.50	\$3,50	\$4,50	\$5.50
12	Au 26	\$11.50	\$260	\$3.15
	\$ 5.60	17 W	x 456	\$6
	130.70	13/1	14 7	1 40

Total	Fair Shave	Val
\$16	134	
\$18	\$4.50	
\$16	\$ 4	
\$20	\$5	

Fair Shares

A: S2, S3

B: 51,53 C: S1,52

D: S1, S4

Fair Divisions

(:) A: Sa, B: S3, C: S1, D: Sy

(ii) A:53, B:51, C:52, D:54

(iii) A; 53,18,54, C; Sa, D:5,

Value of FD

(i) \$6 \$4.50 \$4.35 \$6 2-not efficient

(ii) \$5 \$4.90 \$4.90 \$6 = efficient

(iii) \$5 \$5.50 \$4.50 \$5.50 K

 None are envy-free
Since Sy valued most by C and D.

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1	: Pad	Xbox	P54	Total	Fair Share Value
Bob	/ann)	300	(500	1200	600
Chris	200	(400)	400	1000	500

B1, 300 in

Chris 100 out

Surplus=200

Surplus division

= 200/2 = 100

Bob gets iPad, Psy, pays 300, gets 100 Chris gets XBOX, gets 100 + 100