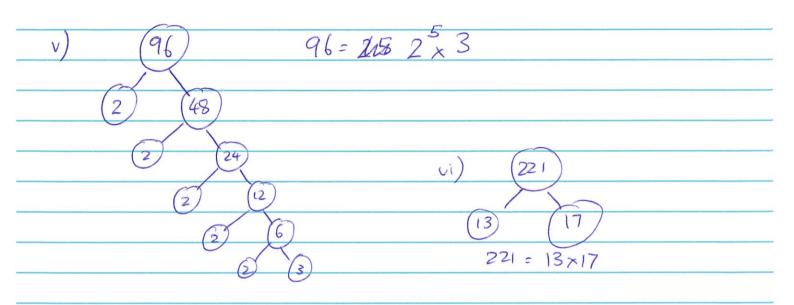
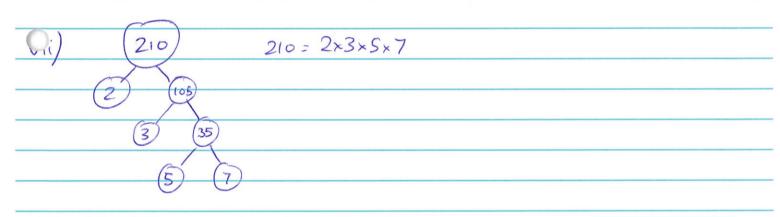
	TOII			
- :	For Sheet.	,)		
	age 2 - 2.0.	iii) 1,48	106	
2, 12	2, 15	2,24	2, 42	
3, 8	3, 10	3, 16	3, 28	
4,6	5, 6	4, 12	4	
1,0	, 0	6,8	/	
V) 1,96	vi) 1,221	vii) 1,210		
2, 48	13, 17	2, 105		
3, 32		3,70		
3, 32		5, 42		
6, 16		6,35		
8,12		7,30		
		10,21		
Factor Trees		Page 4) 2.	1 . (
lactor Irees		1000	(
:) (24)	ii)	(30)		
	/			
(2) (12)		(2) (15		
6 6			\	
	\	(3)	(5)	
(2)	(3)			
24=2×2×2	_× 3	30:2×3>	<u>×5</u>	
$=2^3\times3$				
(48)	/.m = 0.0 =	2 . 1	(84)	
(2) (24)	48 = 2×2×2×2;	×3 (v)	(2) (42)	
	= 24×3		(2) (21)	
	2)		(3) (7)	
(2)			34=2×2×3×7=2	×3×7
	(3)		J. TOROUNI-L	2001

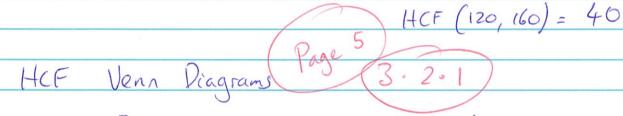




tighes	t Common	ractor: lage	5 -> 3.	· ·	
O					
	-8,54		ii) 96	120	
O Fac	ctan 48	Factors 54	Factus 96	Factor 120	
1	48	1 54	1, 96	1, 120	
2	24	2 27	2,48	2, 60	
3	16	3 18	3, 32	3, 40	
4	12	(b) 9	4,(24).	4, 30	
(6)	8		6, 16	5 (24)	
	HCF (48	8,54) = 6	8, 12	6, 20	
			Č,	8, 15	
				10, 12	

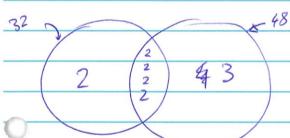
HCF (96, 120) = 24

iii) Factors 64 Factors	32 iv) Factors	120 Factor 160
1,64 1,32	1,120	1, 160
2 (32) 2, 16	2,60	2,80
4, 16 4, 8	3 (40)	4,40
8, 8	4, 30	8, 20
HCF (64,32)	5, 24	10, 16
	6, 20	
	8, 15	
	10,12	



$$48 = 2 \times 3$$

$$54 = 3^{3} \times 2$$



$$64 = 2$$

 $84 = 2^2 \times 3 \times 7$

iv)
$$72 = 2 \times 3^2$$

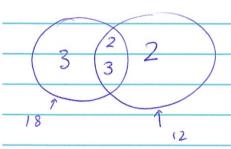
 $96 = 2^5 \times 3$

$$\begin{array}{c|cccc}
2 & 2 & & \\
2 & 3 & 3 & \\
2 & 2 & &
\end{array}$$

age 6 4.10 LCM 15 (30) 45 . LCM (15,10) = 30 10, 20, (30) . . (120) 140 LCM (20,24) = 120 20 60 80 100 40 96 29 48 72 144 16, 32, 48, 64, 80, 96 (112) LCM (16,28)=112 28, 52, 56, 84, (112) 14, 28, (42), 56, 70 LCM (14,21) = 42 19, 38, 57, 76, 95, (14) 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102, 108, (14) LCM (19,6) = 114

i)
$$12 = 2^{2} \times 3$$

 $18 = 2 \times 3^{2}$

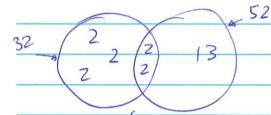


$$Lcm(12,18) = 3 \times 3 \times 2 \times 2$$

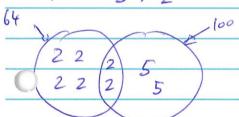
= 36

$$9 32 = 2^{5}$$

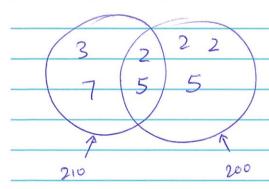
$$52 = 2^{2} \times 13$$



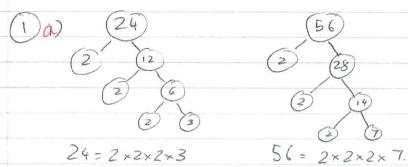
$$64 = 2^6$$
 $100 = 5 \times 2$

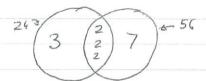


iv)
$$210 = 2 \times 3 \times 5 \times 7$$
 $LCM(210, 200) = 3 \times 7 \times 2 \times 5 \times 2 \times 2 \times 5$
 $200 = 2^3 \times 5^2$ $= 4200$

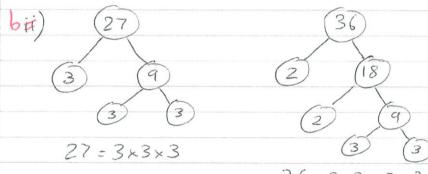


Page 9 Set 1 Solutions.

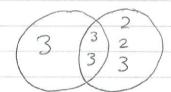




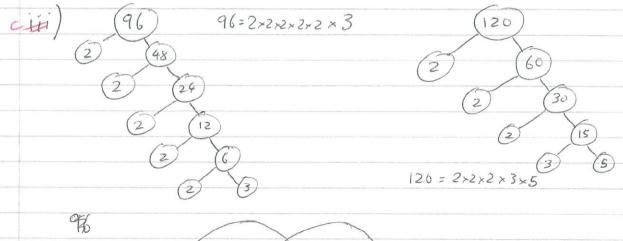
1+CF = 2×2×2=8



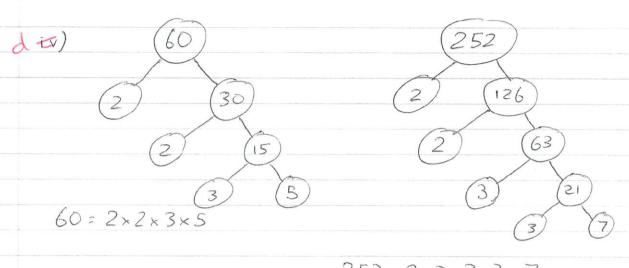
36=2×2×3×3



HCF (27,36) = 3×3=9



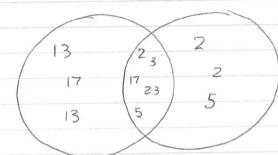
2 2 2 2 5 HCF (96, 120) = 24





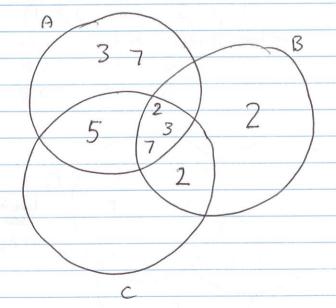
b (#) A: 2,3, 13, 17, 17, 23, 13, 5 B: (17,3) (23,5) (2) 2,2,5

A= 33,700,290 B = 234,600



4)

A = (2 x 3 x 3 x 5 x 7x 7 = 4410 B = (2 × 2 × 2 × 3 × 9) = 168 $C = 2 \times 2 \times 3 \times 5 \times 7 = 420$



HCF (A,B,C) = 2×3×7 = 42 LCM [A,B,C] = 3×7×5×(2×3×7)×2×2 = 17640