The state of the s	2	1801012609 KdP Gr
Jatup Talka Jeli	cu CSE331 H	WANTOIN 1801042609 Rde 610.
d.onekr	a la for	Dies per worter Defects 1cm
Wafux 16cm 15 64		
Watery 20cm	24	100 0.03
a.de	£ : 2 -	= 201,16 cm² Jeld= 1
1) Mater X = 1) 1 = 1,000 11 = 0.01		
Water y = 1) (= 1) (local = lev)		
Die orea = woterandex = 641 = 17 cm2 Cost per de = Cast per water Des per water 64 Des per water 41:eld		
		Dies perwerent gield
Die oreny = Wofer oreally = 100 = Tom		
ν. οι ν	as but mayah 100	
ISI Jieldx = 1	= 0,91	Jieldy = 1 (1+(0.03 x 1/21) 2 = 0,312
B) Yieldx = 1 = 0,34 Yieldy = 1 (1+(0.03 * 1/2))2 = 0,312		
Cost per diex = $15 = 0.2493$ Cost per die y = 0.2631		
64.	20,24	
cl		101.2
111.6 - (eter cost peru	
100	cm 18,75	58.18 O,017 30,30 0,026
wofuy 200	, es 1	
W.X.08==15 x	(=18,75 ×. 1,1=6	64 Y= 58,18 X . 1,15 = 0,02
v-0047		
3.1,1=100 y=30,30		
0	D	9 - 1 - 1
Wofer arex = 712 = 6417 Die oreax = 6417 = 3,4558 yieldx = 1		
$O_{0.30} = 3.4560$ $= \frac{1}{1001} = 3.4580$ $= \frac{1}{1001} = 3.4580$ $= \frac{1}{1001} = 3.45813)$		
		30,30 = 5,4380 = 1
Cost parding 10 >		90,30 = 3,400
Cost per dex = 18,75 = 0,3415 58,18 x 0,9437		
۵۱ره د	~ YJUJ 7	(1+(0,026 #3,4560/2))2
Cost perdigy = 30		
$Cost perding = \frac{30}{30,30 \times 0,3159} = 0,3603$ $= \frac{1}{1,0318} = 0,3159$		
Cost per dil		
Before year	This year	
x 0,3415	0,2433	Decreosed 1/26,39
9 0,3603	0,2431	Decreo sed % 2697

2) Pl=> 3.109 He P2=> 15.109 HZ 109 instructions

V.30=> 3.108 => R type 450 => 5.108=> Itype 1.20=> 2.10=> Jtype

Instructions

Instructions

Pl has 2 Rtype, 4 I type, 3 Jtype P2 has 3 Rtype, 8 Itype, 3 Jtype

Al cleck cycle PI => Needed cycles == 2.3.108 + 4.5.108 + 3.2.108 = 32.108 cycles cleck cycle P2=>3.3.108+3.5.108+3.2.108=30.108 cycles

B) Average for P1 => $\frac{\text{Clock cycle}}{3 \text{ ns dructon count}} = \frac{32.10^8}{109} = 3.2$ Eyeles for each instructions $\frac{97}{109} = 3 \text{ cycles for each instruction}$

E) Frechentine P1=7 Needed cyclis = $\frac{82.10^{3}}{3.10^{9}} = 1,067$ seconds $P2 = \frac{30.10^{8}}{1,5.10^{9}} = 2 seconds$

of $\frac{2}{1,007}$ = 1,875 P₁ is Foster than P2 1,875 times