Math Assignment 2 David Vallecampo Q1 - Four devices A, B, C, D with total of 225GB 4a=b (2b) + b + (5(b+d)) + d = 225a=2b 3b + 5b + 5d + d = 225a+b+c+d = 225 8b + 6d = 225C=5(b+d)  $d = \left(\frac{225 - 8b}{6}\right)$ 2c+ 4d = 500 - b 2(5(b+d)) + 4d + b = 50010b + 10d + 4d + b = 500 11b + 14d = 500 11b + 14 (225-8h) = 500 11/2+525-55/2=500 -33b = -25 b≈ 3.26 ·: a≈ 1.63 d=34.16 c≈ 187.08

Q2-Folder contains less than 100 files
100mod 5=3 {3,8,13,18,23} (78)
100 mod 9= 4 &6, 15, 24, 33, 42, 51, 60, 69, (78) 87}
100mod 11= 1 &1, 12, 23, 24, 45, 56, 67, (78)
.: There are 78 Files.
Q3- Dirthday March 2003 -> March 2004
2004 is a leap year 366 mod 7 = 2
The birthday would be on a Tuesday.
Q+4- 2x=3+5y 0 xx2 y 4x=6+10y
4x + 3y = 710 ( Sub 4x into equation ()
· (6+10y) + 3y = 71 > 2x = 3+5(5)
13y = 65 $x = 28/2$
$y=5 \qquad \qquad x=14$
Q5- 7j+9=174 :: 5= 20-5/6;
10; +125= 240
7; +9(20-5i)=174 $125=120$
$7; + 180 - \frac{5}{2}; = 174$ $5 = 10$
:- 0.5; =-6 :- 12 : Jenny makes \$12/hr and Sarah A

Q7-

08-3(4-y) = 2(y+5) 12-3y = 2y+10 2 = 5y

 $\frac{5.10}{200} = \frac{5.10}{200} = \frac{32}{100} = \frac{7.5.10}{100}$   $\frac{32}{100} = \frac{32}{100} = \frac{7.5.10}{100}$  -52 = 350