Lab report pg 17 to do question 3

PART A Scale reading of Helium
Scale reading of Hydrogen

PART B You will see the flame of different metals
& determine the unknown sample

PART A :

Helium Spectrum :
1. 439nm - Blue violet
2. 461nm - Blue Green
3. 485nm - darker green
4. 495nm - light green
5. 582nm - Yellow
6. 667nm - red
7. 705nm - faint pink

1. 400.39 (Blue violet)	3. 400.81 (darker aqua)	5. 500.88 (Yellow)	7. 700.02 (faint red)
2. 400.61 (Blue green)	4. 400.91 (aqua)	6. 600.61 (red)	

Hydrogen Emission Lines — wavelength
1. 659 nm - red
2. 480nm - light blue
3. 428nm - violet
4. 410 nm too weak to see

Part B

Solution	Color	Duration	
Barium (Ba)	yellow	1.53	weak
Copper Chloride (Cu)	Green	2.96	Strong
Potassium chloride (K)	Pink/red	3.67	weak
Lithium Chloride (Li)	Pink	13.62	Strong
Sodium chloride (Na)	orange	51.09	Strong
Strontium chloride (Sr)	dark orange/red	13.87	weak
Unknown 2	light pink	5.57	weak

5.31