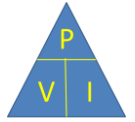# Skills Exploration 11/12
Watt's Law Assignment
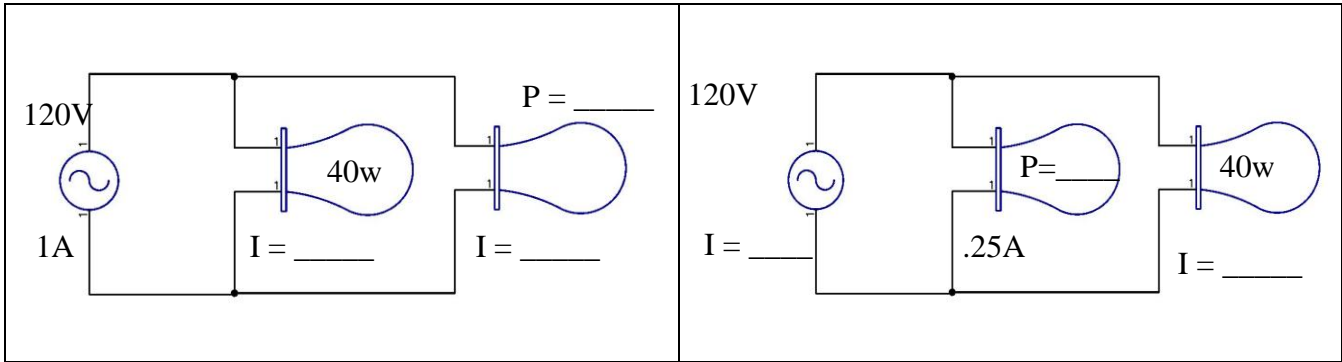
Name:_____   **Mark   /25**

Calculate the missing **values** for voltage, current or Watts using Watt's Law (P = V x I)

120v P = _____ 2A	120V 120W I = _____
V=_____ P = 100W 5A	120V P=60W I = _____
1.5A 120V P = _____	120V 60W 60W I = _____
120V 60W P = _____ I = _____ 1A I = _____	120V P = _____ 120W 3A 1A

Answer the following Power/Current questions about the different loads in the room. The **Voltage** in the room is **120V**

1) What is the maximum wattage and voltage of the microwave?

2) Total up the **maximum** amount of current the 6 scroll saws draw.

3) What voltage is the green Hitachi mitre saw running at? What is the maximum current draw in Amps?

4) What voltage is the General drill press running at? How much current (amps) will it use?

5) The florescent lights in the room are 30watts each. When all the lights are on…
   What is the total wattage of them all?
   What is the total current being used?