

South Bristol Amateur Radio Club
Lesson 4 – Ohms Law Worksheet



- 1) In the above circuit, how much power would the lamp use?
 - a) 750 watts
 - b) 0.75 watts
 - c) 7,500 watts
 - d) 7.5 watts

- 2) What resistance does the lamp in question 1 have?
 - a) 3 Ohms
 - b) 0.003 Ohms
 - c) 750 Ohms
 - d) 300 Ohms

- 3) A typical amateur station will require a 13.8 V DC power supply. It is important that your supply is able to provide enough current at the required voltage. You have a radio that consumes 69 watts on high power (in transmit mode). You will need a power supply that will provide a minimum current of?
 - a) 500mA
 - b) 5mA
 - c) 5A
 - d) 50A

- 4) If I know the voltage and current consumed by a device, what formula do I need to use to calculate the resistance?
 - a) $P = IV$
 - b) $R = V/I$
 - c) $R = I/V$
 - d) $R = VI$

- 5) $I=8, V=10, R=?$
 - a) 1.25
 - b) 12.5
 - c) 125
 - d) 1250