

## Multiple Formula Worksheet

1. What is the power of an appliance if it works on 5 A and has a  $36\ \Omega$  resistor?
2. What is the resistance of a resistor if it uses 120 V and 200 W of power?
3. What is the resistance of a resistor if a circuit is on for 3 minutes, used 2 000 J of energy and had 1.5 A?
4. What is the resistance of a resistor if a circuit is on for 4 hours, used 100 000 J of energy and 220 V?
5. What is the power of an appliance if it works on 1.5 A and has a  $12\ \Omega$  resistor?
6. What is the resistance of a resistor if a circuit is on for 45 minutes, used 40 000 J of energy and had 3 A?

7. What is the power of an appliance if it works on 12 A and has a  $6 \Omega$  resistor?
  
  
  
  
  
  
  
  
  
  
8. What is the resistance of a resistor if it uses 1220 V and 900 W of power?
  
  
  
  
  
  
  
  
  
  
9. What is the resistance of a resistor if a circuit is on for 19 minutes, used 12 000 J of energy and had 3.5 A?
  
  
  
  
  
  
  
  
  
  
10. What is the resistance of a resistor if a circuit is on for 2 hours, used 200 000 J of energy and 220 V?
  
  
  
  
  
  
  
  
  
  
11. What is the power of an appliance if it works on 9 A and has a  $120 \Omega$  resistor?
  
  
  
  
  
  
  
  
  
  
12. What is the resistance of a resistor if a circuit is on for 90 seconds, used 15 000 J of energy and had 3 A?