

## Electrical Wiring Formulas Worksheet

Name \_\_\_\_\_ Grade \_\_\_\_\_

1. Watts = Volts x Amperes x Power Factor
2. Amperes = Watts/ Volts
3. Volts = Watts/ Amperes

Calculate the following: Set up each problem with the formula and insert numbers **before** doing the math.

1. 120 Volts, 5 amps  
Watts =

2. 1600 Watt, 120 Volts  
Amps =

3. 240 Volts, 11 amps  
Watts =

4. 1345 Watts, 240 Volts  
Amps =

5. 120 Volts, 12.5 Amps  
Watts =

6. 2390 Watts, 120 Volts  
Amps =

7. 240 Volts, 6.9 Amps  
Watts =

8. 1500 Watts, 120 Volts  
Amps =

9. 120 Volts, 16 Amps  
Watts =

10. 1800 Watts, 240 Volts  
Amps =

11. 240 Volts, 17 Amps, PF = .5  
Watts =

12. 22 Amps, 120 Volts, PF = .8  
Watts =