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**Memorizing Ohm's law**  
Power Formula  $P = I \times E$

Lets try some examples we are familiar with;

<p>P= 60 watt light bulb E=120 volts I= .5 amps</p> <p>P=100 watt light bulb E=120 volts I=.83 amps</p> <p>Electric Kettle consumes P=900 watts E=120 volts I= 7.5 amps</p> <p>Electric Toaster P= 1200 watts E=120 volts I=10 amps</p>	  		<p><b>Power:</b> <math>P = I \times E</math> (Watts) <b>Current:</b> <math>I = P / E</math> (Amps) <b>Voltage:</b> <math>E = P / I</math> (Volts)</p> <p><i>E = Electromotive Force aka Volts I = Intensity aka Current</i></p>
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• Decibels: Read Section A1.7 in your study guide

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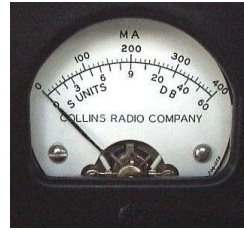
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## Decibels

- A doubling of power results in a change of 3dB higher
- Transmitter's power can be reduced 3dB by reducing the power by half
- Transmitter's power can be increased by 6dB by quadrupling power



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