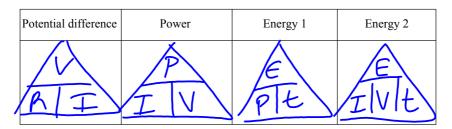
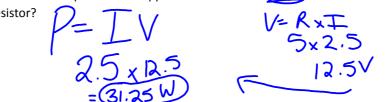
## Multiple Formulas

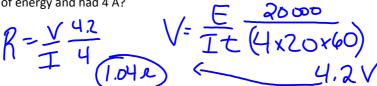


1. What is the power of an appliance if it works or 2.5 A and has a 5.0



2. What is the resistance of a resistor if it uses 220 V and 300 W of power?

3. What is the resistance of a resistor if a circuit is on for 20 minutes, used 20 000 J of energy and had 4 A?



4. What is the resistance of a resistor if a circuit is on for 2 hours, used 50 000 J of energy and 220 V?



5. What is the power of an appliance if it works on 5 A and has a 3.5  $\Omega$  resistor?

P=IV V=RI 5 × 17.5 (27.5W) 3.5×5 ~ 17.5 V

- 6. The resistance of a heating element is  $10~\Omega$  and the potential difference (voltage) across its terminals is 120~V. This element is used for 3 hours. How much electrical energy was used during this period?
- A) 4 320 J B) 259 200 J C) 1440 000 J D) 15 552 000