Multiple formulas Worksheet

1. Give the 4 triangles for the electricity formulas.

2. What is the resistance of a resistor if a circuit is on for 28 minutes, used 25 000 J of energy and had 3 A?

3. What is the resistance of a resistor if a circuit is on for 3 hours, used 90 000 J of energy and 120 V?

4. What is the resistance of a resistor if it used 0.9 A and 650 W of power?

5. What is the resistance of a resistor if it uses 920 V and 180 W of power?

6. What is the resistance of a resistor if a circuit is on for 90 minutes, used 50 000 J of energy and 120 V?

7. What is the power of an appliance if it works on 6.5 A and has a 10 Ω resistor?

8. What is the power of an appliance if it needs 220 V when it has a 10 Ω resistor?

9. What is the resistance of a resistor if a circuit is on for 30 minutes, used 20 000 J of energy and had 2 A?

10. What is the power of an appliance if it needs 610 V when it has a 200 Ω resistor?

11. What is the potential difference when a microwave runs on 6 A and uses 900 W of power?

12. What is the resistance of a resistor if a circuit is on for 80 minutes, used 70 000 J of energy and had 4 A?

13. What is the power of an appliance in kW if it works on 7 A and has a 3.9 Ω resistor?

14. What is the resistance of a resistor if it used 0.6 A and 850 W of power?