## Formula review 2

1. If a TV used 400 000 J of energy and 600 W of power. How many hours did you watch TV

t= = 400000 = 6667 = 619 mo

2. What was the potential difference of a computer that used 55 000 J of energy when it was on for 2 hours and had 1.2 A?

3. How much time passed in minutes when a computer did 700 000 J of work and had 550

W of power?  $=\frac{E}{D}$   $\frac{700000}{550} = \frac{1272.7}{60}$ 

4. What was the current intensity of a clock radio that used 50 000 J of energy when it was on for 5 hours and had 210 V?

I=E 50000 = 0.03A

5. What was the potential difference of a circuit that used 90 000 J of energy when it was on for 50 minutes and had 5.2 A?

6. What was the potential difference of a computer that used 55 000 J of energy when it was on for 5 hours and had 9.2 A?

V= = 55000 = (0.33 V It 9,2,5,3600 = (0.33 V

7. A radio is on for 6 hours and has 700 W of power. What is the energy in kWh?

700 x 6x 3600 = (4,2 KWh Cz Pt

8. What was the current intensity of a clock radio if it used 100 V and a 100  $\Omega$  resistor?

9. What is the resistance of a resistor if it uses 200 V and 5 A of current?
R= Y 200/= (40n)
10. What is the power in kW when a dishwasher used 20 V and 2.5 A?
P=IV 20 x2,5 (0.05 kw)
11. How much time elapsed in hours if a TV used 50 000 J of energy and needs 40 W of power? $ \begin{array}{cccccccccccccccccccccccccccccccccc$
12. A hairdryer is on for 15 minutes and uses 220 V and 5.5 A how much energy will be used
in kWh? E=IVE 220x5.5x 15x60 £0.3kWh)  3 600 000
13. What is the potential difference of a circuit if it has a 6.5 $\Omega$ resistor and 3.0 A?
V=RI 65xs = (19.5 V)
14. What is the resistance of a resistor if the power supply is set at 8 V and the current
intensity is 2 A?
R=== (4x)
15. An appliance is on for 90 minutes and uses 400 W of power how much energy will be used in J?
E2 Pt 400×90×60=(21600005)
16. How much time elapsed in minutes if a TV used 55 000 J of energy and needs 150 W of power?
t= E 55000- 366.7 (6.1 min