

Energy Questions Worksheet

1. What are the 2 energy formulas, triangles? Include the units
2. You used a 750 W hairdryer for 20 minutes a day. How much energy was used in kWh?
3. An oven is used for 50 minutes per day for 60 straight days. Its voltage is 100 V and its intensity is 4.5 A. How much energy was used in J for the 60 days?
4. How much power was used if a TV was on for 3 hours and needed 600 000 J of energy?
5. A kettle is used for 15 minutes a day and used 700 000 J of energy. How much power was used?
6. A computer is on for 3 hours a day. It has a voltage of 350 V and an intensity of 12 A. How much energy is used in kJ?
7. A stereo is on for 20 minutes a day and has a power of 200 W. How much energy is used in kWh?
8. A humidifier is used for 1 000 minutes a day for 30 days. Its voltage is 100 V and its intensity is 3 A. What is the energy used in kWh for the 30 days?
9. How much time elapsed in hours if a TV used 500 000 J of energy and needs 200 W of power?

10. A toaster takes 45 seconds to toast a piece of bread. If it uses 200 W of power how much energy will be used up in J?

11. A computer uses 7000 W of power and is used for 115 minutes a day. How much energy is used for one day in J?

12. You recharge your cell phone for 4 hours a night, 3 days a week. It uses 200 V and 3 A to recharge. How much energy was used in kWh for the week?

13. Your dustbuster uses 180 000 J of energy and 300 W of power. How many minutes did you use your dustbuster for?

14. A radio is on for 1 hour and has 500 W of power. How much energy was used in kJ?

15. A blow-dryer is used for 15 minutes a day. It uses 190 V and 3 A. How much energy is used in J?

16. If a computer used 850 000 J of energy and 90 W of power. How long did you use the computer for?

17. A DVD player consumes 86 400 J of energy when used for 2 hours. The appliance is plugged into a 120 V electrical outlet. How much current does the DVD player draw?
A) 0.003 A B) 0.1 A C) 6.0 A D) 360 A

18. Which appliance produced more energy
 - a- A blow-dryer used for 20 minutes and having 300 W of power
 - b- A TV used for 2 hours and having 100 W of power
 - c- A microwave used for 90 seconds and needing 220 V and 1.5 A