![C:\Users\Nindi\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\K2A2K2DM\MC900199226[1].wmf]()The Price of Energy

**Practise calculating the cost of energy.**

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| 1. A meter reader determines that a business has used 3550 kW⋅h of energy in two months. If electricity costs 10¢ per kW⋅h, calculate the bill. ($355.00)  | 2. An electric heater draws 1100 W of power. Electricity costs 8¢ per kW⋅h. How much does it cost to operate the heater 3.0 h a day for 30 days?($7.92) |
| 3. A 730 W toaster and 1200 W electric frying pan are plugged into the same 100 V outlet. How much will it cost to operate the two appliances at 8¢ per kW⋅h if they are used for 20 h? ($3.09) | 4. A toaster is used an average of 5.0 h a month. The toaster draws 8.0 A of current from a 110 V outlet. If electricity costs 8¢ per kW⋅h, how much will it cost to operate the toaster for one year?($4.22) |
| 5. A ceiling fan operates for 10 h every day for one week. The fan uses 120 V and has a current of 1.2A.(a) What is the power of the fan?(b) How much energy does the fan use in one week? Give your answer in kW•h.(c) If electrical energy costs $0.067/kW•h, how much does it cost to operate the fan for one week? |

6. In an average week, a student uses a 1200 W hair dryer for 30 min. If electrical power costs $0.06 kW•h, how much does it cost to use the hair dryer in an average week?