C:\Users\Nindi\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\K2A2K2DM\MC900199226[1].wmfThe 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?