

Calculate Your Cost

This worksheet provides additional practice for the Science and Math Link on page 116.

 **1. a)** A large LCD TV uses 210 W. If the TV is on for 4 h, how much energy will it use? Show your work.

STEP 1. Write down what you know.

Energy used =

Power =

Time =

1 kW =

What formula do you use?

STEP 2. What do you want to find out?

STEP 3. Convert watts to kilowatts.

STEP 4. Use the formula.

 **1. b)** If 1 kWh costs 8.0¢, how much would it cost to leave the TV on for 4 h? Show your work.

STEP 5. What do you want to find out?

STEP 6. Multiply the amount of energy by the price of energy.

Total cost =

STEP 7. State the total cost.

Name: _____

Date: _____

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(continued)



2. a) You run a 2500 W dryer for 3 hours. How much energy in kWh does the dryer use? Show your work.



2. b) If 1 kWh of electricity costs 9.0¢, what would be the cost of running the dryer for three hours? Show your work.



3. a) An air conditioner has a power rating of 3500 W. How much energy in kWh will the air conditioner use in 12 hours? Show your work.



3. b) If 1 kWh of electricity costs 8.5¢, what would be the cost of running the air conditioner for 12 hours?