

Name: _____

Date: _____

BLM 5-5

Calculate the Power Used

This worksheet provides additional practice for the Science and Math Link on page 114.



- 1.** A computer screen uses 4500 J in 120 s. What is the power rating of the computer screen? Show your work.

STEP 1: Write down what you know.

STEP 2: What do you want to find out?

STEP 3: Use the formula.

$$\text{Power} = \frac{\text{Energy}}{\text{Time}}$$

STEP 4: Express the power in watts.



- 2.** A hair dryer uses 12 000 J in 11 s. What is the power rating of the hair dryer? Show your work.

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(continued)



- 3.** An air conditioner uses 9000 J in 4 s. What is the power rating of the air conditioner? Show your work.



- 4.** An electric can opener uses 800 J in 3 s. What is the power rating of the can opener? Show your work.