

Astronomy Ranking Task: Energy, Work, and Power

Exercise #1

Description: Consider the following.

- A. a 1.2 kW hair dryer used for 10 minutes
- B. a 10 W night light left on for 24 hours
- C. a 1600 W microwave used for 2 minutes
- D. a 170 W stereo receiver used for 7 hours

A. Ranking instructions: Rank the amounts of energy consumed by the items.

Ranking Order: Greatest 1 _____ 2 _____ 3 _____ 4 _____ Least

Or, all of the items consume the same amount of energy. _____ (indicate with a check mark)

Or, there is not enough information to determine this. _____ (indicate with a check mark)

Carefully explain your reasoning for ranking this way:
