

▶ Extending Concepts

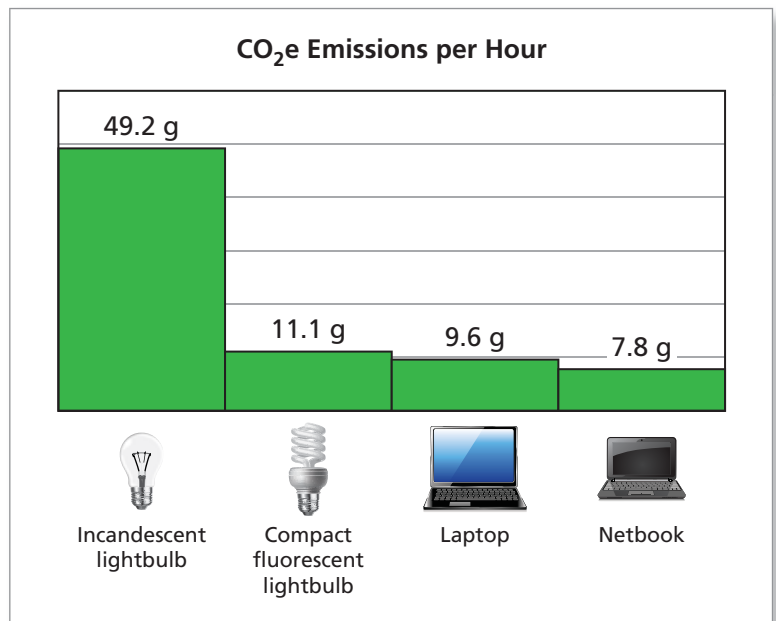
ENERGY STAR In Exercises 23 and 24, use a set diagram to analyze the statement about ENERGY STAR.

23. The ENERGY STAR label was established to
- reduce greenhouse gas emissions and other pollutants caused by the inefficient use of energy and
 - make it easy for consumers to identify and purchase energy-efficient products that offer savings on energy bills without sacrificing performance, features, and comfort.

24. **ENERGY STAR Rebates**
 Each state and territory will choose dollar amounts for the products selected. Most rebate amounts range from \$50 to \$500, depending upon the product being purchased, the purchase price, and other potential market factors. Some states give additional rebates for recycling.



25. **Emissions** Use the graph to write one statement involving “all” and “some” that you can make about the products in the graph. Use a set diagram to analyze the statement.



Purchases In Exercises 26–28, use a set diagram to visualize the negation of the statement about planned purchases.

26. To help heat my apartment, I will buy a space heater and an electric fireplace, or I will buy an ENERGY STAR qualified woodstove.
27. To update my plumbing, I will buy a solar water heater or gas condensing water heater, and low-flow showerheads.
28. For my new home, I will buy a chest freezer or an upright freezer, and fluorescent lighting or ENERGY STAR LED lighting.