

## Chapter 12

Use with Section 2

## REINFORCEMENT

## ● Energy from the Sun

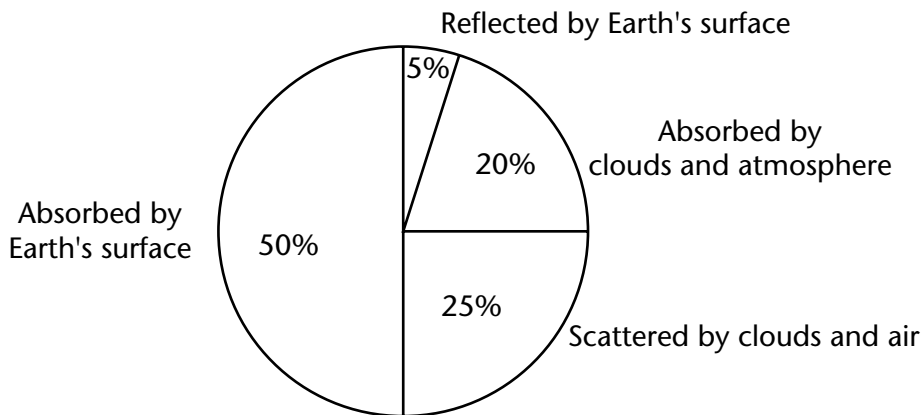
Complete the chart on the three types of heat transfer and their causes. Then answer the following questions on the lines provided.

| Types of heat transfer | How they are produced |
|------------------------|-----------------------|
| Radiation              | produced by _____     |
| Conduction             | produced by _____     |
| Convection             | produced by _____     |

- In some home heating systems, warm air rises on one side of a room and forces cold air across the room where it sinks to the floor. What type of heat transfer is this? \_\_\_\_\_
- When you get in a closed car on a sunny day and the temperature inside is much warmer than outside, what type of heat transfer has taken place? \_\_\_\_\_
- If you put a frying pan on a burner on a stove and turn the burner on, the bottom of the frying pan gets hot. What type of heat transfer has occurred? \_\_\_\_\_

Answer the following questions using the information from the graph.

### What happens to radiation coming to Earth from the sun?



- Why doesn't all radiation directed at Earth reach the surface? \_\_\_\_\_  
\_\_\_\_\_
- What percent of radiation is lost before reaching Earth's surface? \_\_\_\_\_
- What percent of radiation is lost after reaching Earth's surface? \_\_\_\_\_
- What factors in the atmosphere seem to have the greatest effect on radiation coming from the sun?  
\_\_\_\_\_