

SECTION

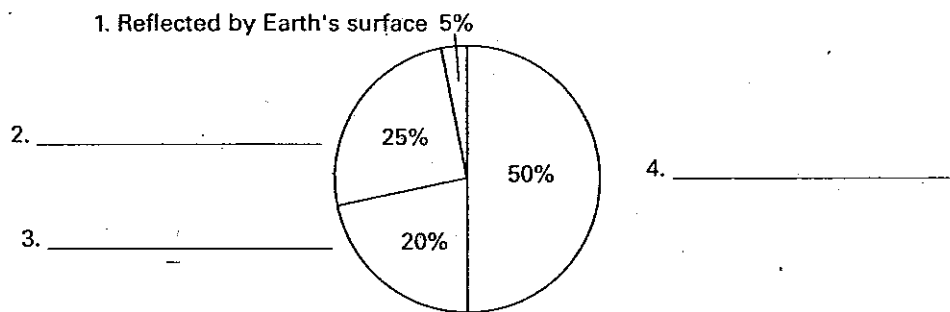
THE SUN SUPPLIES THE ATMOSPHERE'S ENERGY.

1.2 Reading Study Guide A**BIG IDEA** Earth's atmosphere is a blanket of gases that supports and protects life.**KEY CONCEPT** The Sun supplies the atmosphere's energy.**Vocabulary****radiation** energy that moves across distances in the form of certain types of waves**conduction** the moving of heat energy by one substance touching another**convection** the moving of heat energy by the motion of a gas or liquid**Review**

1. What are the two most plentiful gases in Earth's atmosphere?
- _____

Take Notes**1. Energy from the Sun heats the atmosphere. (p. 16)**

2. The circle graph shows the average amounts of solar radiation that are absorbed and reflected on Earth. Complete the graph by labeling its parts. Use diagram on page 17 to help you.



Fill in the chart with facts about sunlight that reaches Earth.

Energy from the Sun
heats the atmosphere.

→	_____
→	_____

3. How does the solar energy that is absorbed by Earth's surface affect Earth?
- _____

II. The atmosphere moves energy. (p. 18)

4. What three processes move energy from place to place?

A. Radiation (p. 18)

5. Fill in the blank to complete the statement about radiation.

Earth's surface becomes warmer when it is heated by _____ from the Sun.

B. Conduction (p. 18)

6. Explain why your feet might get hot if you are standing barefoot on the beach on a hot day.

Explain why the bowl of this metal spoon gets hot after resting in a mug of very hot cocoa.



C. Convection (p. 18)

6. Complete the diagram to show how convection works.

