

Chapter 23**ENRICHMENT**

Use with Section 4

• Galaxies and the Universe**Revolving About the Milky Way**

Every 250 million years, our sun revolves once about the center of the Milky Way Galaxy. Find how many revolutions or parts of a revolution have occurred since the following events in Earth's history. Show your work for each event.

1. Earth formed 4600 million years ago.

2. Oceans of water began forming 3800 million years ago.

3. Animals with shells and skeletons first appeared 570 million years ago.

4. The Appalachian Mountains began forming 500 million years ago.

5. The first mammals appeared 225 million years ago.

6. The Atlantic Ocean basin began forming as Africa, Eurasia, and the Americas began separating 190 million years ago.

7. The last dinosaurs died 65 million years ago.

8. The Himalaya Mountains began forming 53 million years ago.

9. The light we now see from the Andromeda Galaxy began traveling through space 2.4 million years ago.

10. The last ice age ended 10 000 years ago.

11. The *Apollo* astronauts first landed on the moon in 1969.
