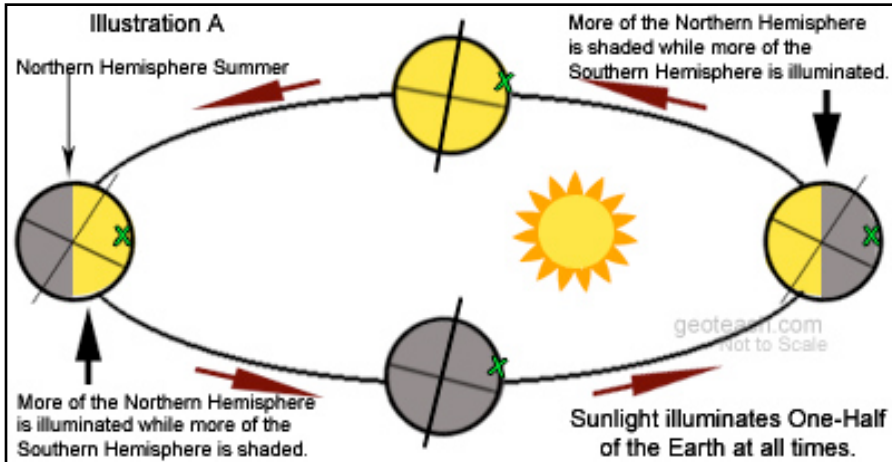


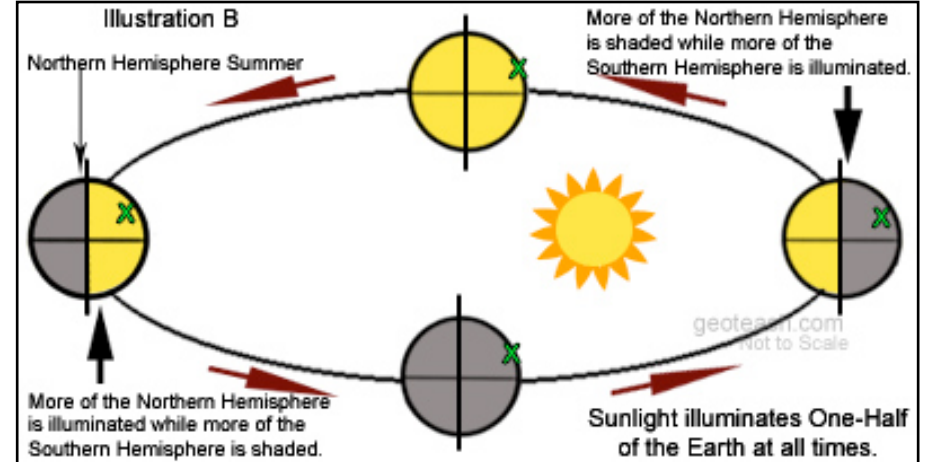
### If Earth's Axis Tilt Were to Change

**Situation:** An asteroid has impacted Earth and its force was not enough to cause global catastrophic damage nor loss of life. However, the Earth wobbled on its axis and now its tilt has changed. Look at the illustrations below which shows Earth in its revolutionary orbit around the sun. An "X" has been placed at the approximate location of the United States.

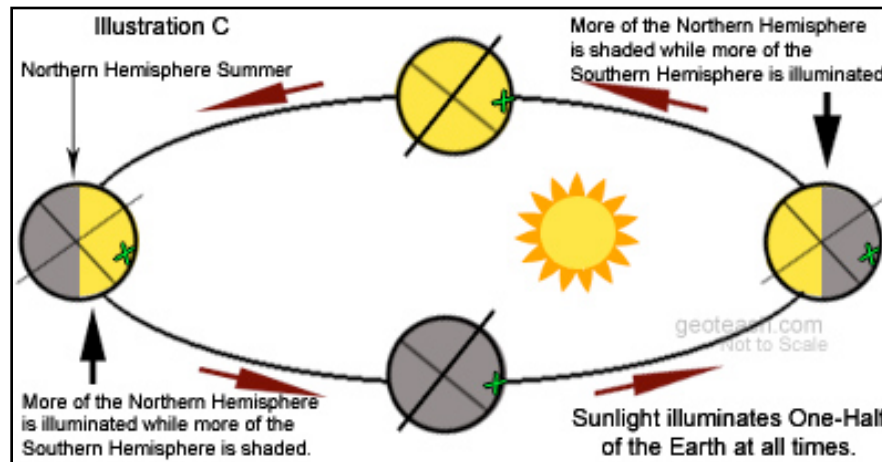
**23.5° Tilt (nor-**



**0°**



**45°**



**Question 1:** If Earth's axis were not

it were perpendicular to Earth's plane of orbit, what effects would that have on people living in the United States? Be sure to mention any seasonal changes. Notice the Winter and Summer positions in the illustrations. Include, not only a time period of one year, but also the cumulative effects over a longer time period.

tilted at all, in other words, if

**Question 2:** If Earth's axis tilt significantly increased from 23.5° to 45°, what effects would that have on people living in the United States? Be sure to mention any seasonal changes. Notice the Winter and Summer positions in the illustrations. Include not only a time period of one year, but also the cumulative effects over a longer time period.