
Exercise H1: Artificial Satellites and the Space Environment

Student name: _____ Class: _____ Date: _____

Check the box with the correct answer.

Question 1: What speed is required to keep the ISS in its circular orbit?

- a. 7.9 m/s
- b. 7.7 km/s
- c. 33.7 km/s
- d. 7.9 km/s

Question 2: Which of the following would require a geostationary orbit?

- a. A satellite monitoring weather developments at equatorial latitudes over the Atlantic, Pacific and Indian Oceans.
- b. A satellite gathering global land use information.
- c. A satellite monitoring the north and south polar ice caps.
- d. A satellite providing TV signals to fixed antennas at homes upon Earth.

Question 3: Which statement best describes Galaxy 19's orbit?

- a. It is circular and its plane is coincident with the Earth's equatorial plane.
- b. It is highly elliptical.
- c. It is a polar orbit.
- d. It is a low Earth orbit, equivalent to that of the International Space Station.