## Exercise D2: Comets and Meteors

Student name: $\qquad$ Class: $\qquad$ Date: $\qquad$
Check the box with the correct answer.

Question 1: What is the major difference between asteroid and comet orbits?
a. Comet orbits are more elliptical than asteroid orbits.b. Comet orbits tend to be closer to the plane of the ecliptic than asteroid orbits.c. Comet orbits have their aphelion closer to the Sun than asteroid orbits.d. Comet orbits are more stable than asteroid orbits.

Question 2: Assuming no major changes to its orbit, what will the orbital period of Halley's comet be after 2020?a. 38 yearsb. 65 yearsc. 76 yearsd. 152 years

Question 3: How does the semi-major axis of Halley's orbit compare to the Earth's distance from the Sun? Hint: Use the Angular Separation Tool and the diagram below to help you to answer this question.a. It is about the same.b. It is 18 times larger.c. It is 36 times larger.d. It is 72 times larger.

Question 4: What is the approximate date of the Eta Aquarid meteor shower?
a. Early May
b. Mid-Octoberc. Mid-Aprild. Late May

