Exercise A13: Precession and Nutation

Check the box with the correct answer.

Question 1: What is the precession period of the Earth's spin axis?
   - a. 6,000 years
   - b. 11,600 years
   - c. 25,600 years
   - d. 22,000 years

Question 2: What is significant about the diameter of the precession circle?
   - a. It is equal to twice the angular tilt of the Earth's spin axis.
   - b. It is equal to the angular tilt of the Earth's spin axis.
   - c. It is equal to one-half the angular tilt of the Earth's spin axis.
   - d. It is equal to the separation between Polaris and the North Ecliptic Pole.

Question 3: At what time in the past could Vega have been considered as the North Star? (Hint: Run time backwards to determine this date.)
   - a. 1,000 BC
   - b. 5,000 BC
   - c. 12,000 BC
   - d. 15,000 BC

Question 4: In which constellation was the Vernal equinox when Hipparchus made his observations in the second century BC? (Hint: Press the Run Time Backward button).
   - a. Capricornus
   - b. Aquarius
   - c. Aries
   - d. Pisces
**Question 5:** What is the period of nutation?

- [ ] a. 5 years
- [ ] b. 10 years
- [ ] c. 19 years
- [ ] d. 40 years