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TESTS & FINAL EXAM

TESTS KEY

CHAPTER 1: Supplemental Questions

1. **a.** How old is a person who has lived 22,630 days in years? (365 days = 1 year)

$$22{,}630 \text{ days} \times \frac{1 \text{ year}}{365 \text{ days}} = \mathbf{62 \text{ years}}$$

b. How old is a 13-year-old in days?

$$13 \text{ years} \times 365 \frac{\text{days}}{\text{year}} = \mathbf{4{,}745 \text{ days}}$$

2. Motion of the earth and moon give the three easiest ways to measure time. Using these two bodies, how could the following be measured?

a. 1 day The time it takes the earth to spin once on its axis.

b. 1 month One complete cycle of the moon (example: full moon to full moon) or one complete trip around the earth.

c. 1 year The time it takes for the earth to make one trip around the sun.

3. What is a leap year, and how often does it occur?

Normally a year has 365 days in it. A leap year has 366 days in it, and occurs every 4 years.

4. How many days did each of the following calendars have in a year?

a. Babylonian 360 days

b. Egyptian 365 days

c. Julian 365.25 days

d. Gregorian 365.2425 days