

Intro Quiz #1

1. How many minutes are in a year?

Given:

- 365 days / 1 yr
- 24 hr / 1 day
- 60 min / 1 hr

Estimate: # min / yr

$$\frac{60 \text{ min}}{1 \text{ hr}} \times \frac{24 \text{ hrs}}{1 \text{ day}} \times \frac{365 \text{ days}}{1 \text{ yr}} = \frac{6 \times 10^5 \text{ min}}{1 \text{ yr}}$$

Handwritten notes: 60, 24, 365, and the final result are circled in red. 25, 100, and 400 are written above 24, 365, and 365 respectively.

2. How many nanoseconds are in a millenium?

Given:

- 1,000 yrs / 1 millenium
- 365 days / yr
- 24 hr / 1 day
- 60 min / 1 hr
- 60 sec / 1 min
- 10^9 nanoseconds / 1 sec

Estimate: # nanoseconds / millenium

$$\frac{10^9 \text{ ns}}{1 \text{ sec}} \times \frac{60 \text{ sec}}{1 \text{ min}} \times \frac{60 \text{ min}}{1 \text{ hr}} \times \frac{24 \text{ hr}}{1 \text{ d}} \times \frac{365 \text{ d}}{1 \text{ yr}} \times \frac{10^3 \text{ yrs}}{1 \text{ mill}} = \frac{36 \times 10^{18} \text{ ns}}{1 \text{ mill}}$$

Handwritten notes: 10^9, 36, 10^3, and the final result are circled in red. 25, 100, and 400 are written above 24, 365, and 365 respectively.