

Unit 2 Measurement and Formulas

Time

The next few pages are devoted to using tables of measures and to converting from one unit to another.

60 seconds (sec) = 1 minute (min)	365 days = 1 year
24 hours (hr) = 1 day	366 days = 1 leap year
7 days = 1 week (wk)	10 years = 1 decade
52 weeks = 1 year	100 years = 1 century
12 months (mo) = 1 year (yr)	

To change from a larger unit of time to a smaller unit of time, multiply the units. To change from a smaller unit of time to a larger unit of time, divide the units.

Find: 7 days = _____ hours

Find: 441 days = _____ weeks

To change a larger unit to a smaller unit, multiply.

24 hours = 1 day

$$\begin{array}{r} 24 \text{ hours} \\ \times 7 \text{ days} \\ \hline 168 \text{ hours} \end{array} \quad 7 \text{ days} = 168 \text{ hours}$$

To change a smaller unit to a larger unit, divide.

7 days = 1 week

$$\begin{array}{r} 441 \text{ days} \\ \div 7 \text{ days} \\ \hline 63 \end{array} \quad 441 \text{ days} = 63 \text{ weeks}$$

Change each larger unit to a smaller unit. You may need to change units twice.

- 5 yr = 260 wk 30 wk = _____ days 17 yr = _____ wk 13 min = _____ sec
- 5 yr = _____ days 3 hr = _____ sec 72 days = _____ hr 2 yr = _____ hr

Change each smaller unit to a larger unit. You may need to change units twice.

- 300 yr = 30 decades 48 hr = _____ days 18 mo = _____ yr 1,095 days = _____ yr
- 7,200 sec = _____ hr 84 days = _____ wk 84 hr = _____ days 286 wk = _____ yr

Solve.

5. Maria works out for 150 minutes every Saturday. How many hours is this?

Answer _____

6. Wong ran for 45 minutes in a marathon without stopping. How many seconds did Wong run without stopping?

Answer _____