

Scientific Math Practice Problems

Some help:

$^{\circ}\text{C} = 5/9(^{\circ}\text{F} - 32)$, 29.92 in Hg = 760 mm Hg = 1.013 bar = 1013 mb = 101.3 kPa

1 circle (sphere) = 360° , 1 hemisphere (1/2 sphere) = 180° , $1^{\circ} = 60'$, $1' = 60''$

1 km = 1000 m, 1 AU = 149,599,000 km, 1 light year = the distance light travels in 365.26 days, light travels at 3.00×10^8 m = 1 second, 1 parsec = 3.0857×10^{13} km

- Convert the following temperatures to Celsius
 - 68°F
 - 32°F
 - 0°F
 - -35°F
 - 98.6°F
 - 55°F
- Convert the following pressures into mm of Hg
 - 30.27 in Hg
 - 1020 mb
 - 98.6 kPa
 - 29.95 in Hg
- Convert the following pressures to mb
 - 28.64 in Hg
 - 754 mm Hg
 - 104.2 kPa
 - 2.41 atmospheres
- How long will it take for sunlight to reach each of the following places (you'll have to do some research on where these places are)?
 - Venus
 - Mercury
 - Mars
 - Saturn
 - Jupiter
 - Rigel (2.37×10^{15} km)
 - Polaris (4.31×10^{15} km)
 - Aldebaran (6.42×10^{14} km)
 - Vega (2.51×10^{14} km)
 - Arcturus (3.42×10^{14} km)