

## Longitude Worksheet

Determine the longitudes of the cities listed on this worksheet. The longitudes should be rounded to the nearest degree and expressed as 0-180 west of Greenwich or 0-180 degrees east of Greenwich. Then calculate the solar time (rounding to the nearest hour) in these places when it is noon in Greenwich. Please note that the conventional times, determined by modern time zones, may not be the same as true solar time, which is based solely on the daily transit of the Sun. Remember that a one hour time difference is equal to 15 degrees longitude.

City	Longitude (to the nearest degree)	Time (to the nearest hour)
Greenwich, United Kingdom	0°	12:00 PM (noon)
Naples, Italy	14° E	1:00 PM
Prague, Czech Republic		
St. Petersburg, Russia		
Istanbul, Turkey		
Cairo, Egypt		
Kinshasa, Congo		
Dakar, Senegal		
Johannesburg, South Africa		
Baghdad, Iraq		
Bombay, India		
Lhasa, China		
Shanghai, China		
Kyoto, Japan		
Manila, Philippines		
Hanoi, Vietnam		
Sydney, Australia		
Suva, Fiji		
Nome, Alaska		
Santa Barbara, California		
Regina, Saskatchewan, Canada		
New Orleans, Louisiana		
New York, New York		
Guatemala City, Guatemala		
Bogota, Colombia		
Buenos Aires, Argentina		
Rio de Janeiro, Brazil		