

Local Apparent Noon using GHA *Western Longitudes*

Date- _____

1- Your longitude	°	'	
2- Get GHA < your longitude for the date*	°	'	<i>GHA integral hour=</i>
3- Subtract GHA from your longitude	°	'	
4- Convert answer from step 3 to time using <i>Table 3- Conversion of Arc to Time</i>			
5- Answer from step 4 converted to time. Put <i>GHA integral hour</i> in hour place	:	:	Local Apparent Noon

...or... convert degrees in step 3 to time as follows;

6- Step 4 GHA integral degrees	° X 4 =	minutes of time
7- Step 4 GHA minutes of arc < 15'	' X 4 =	minutes of time
8- Step 4 GHA minutes of arc > 15'	' / 15 =	minutes of time
9- Remainder minutes of arc from step 8	' X 4 =	seconds of time
10- Add steps 6 through 9 minutes of time and seconds of time	:	:
		Local Apparent Noon

Convert Arc to Time

<p>Degrees to time if degrees < 15° Example- 14° x 4 = 56 minutes of time</p> <p>Minutes of arc < 15' then <i>multiply</i> minutes of arc by 4 Example- 0° 09' = 4 x 09' = 36 minutes of time</p> <p>Minutes of arc > 15' then <i>divide</i> minutes of arc by 15 Example- 0° 27' = 27' / 15 = 1 minute of time Remainder= 12' minutes of arc Multiply remainder minutes of arc by 4 (as above)</p>

* The GHA < your longitude for the specific date must be used.

Local Apparent Noon using GHA *Eastern Longitudes*

Date- _____

1- Your longitude	°	'	
2- $360^\circ - \text{Your Longitude}$			
3- Get GHA < your longitude for the date*	°	'	<i>GHA integral hour=</i>
4- Subtract GHA from your longitude	°	'	
5- Convert answer from step 4 to time using <i>Table 3- Conversion of Arc to Time</i>			
6- Answer from step 5 converted to time. Put <i>GHA integral hour</i> in hour place	:	:	Local Apparent Noon

...or... convert degrees in step 3 to time as follows;

7- Step 5 GHA integral degrees	° X 4 =	minutes of time
8- Step 5 GHA minutes of arc < 15'	' X 4 =	minutes of time
9- Step 5 GHA minutes of arc > 15'	' / 15 =	minutes of time
10- Remainder minutes of arc from step 9	' X 4 =	seconds of time
11- Add steps 7 through 10 minutes of time and seconds of time	:	:
		Local Apparent Noon

Convert Arc to Time

<p>Degrees to time if degrees < 15° Example- $14^\circ \times 4 = 56$ minutes of time</p> <p>Minutes of arc < 15' then <i>multiply</i> minutes of arc by 4 Example- $0^\circ 09' = 4 \times 09' = 36$ minutes of time</p> <p>Minutes of arc > 15' then <i>divide</i> minutes of arc by 15 Example- $0^\circ 27' = 27' / 15 = 1$ minute of time Remainder= 12' minutes of arc Multiply remainder minutes of arc by 4 (as above)</p>

* The GHA < your longitude for the specific date must be used.