

H.W  
9/7/21

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1. In the grid shown below some points are marked. Using the figures marked in the grid, identify the latitudes and longitudes of these points.

~~A = 90°N, 75°W  
B = 120°N, 60°W  
C = 60°N, 60°E  
D = 15°N, 45°  
E = 150°N  
F = 120°S, 60°W  
G = 30°S  
H = 75°N, 15°S  
I =  
J =~~

A = 90°N, 75°W  
B = 120°N, 60°W  
C = 60°N, 60°E  
D =

A = 90° longitude and 75° latitude  
B = 120° longitude and 60° latitude  
C = 60° longitude and 60° latitude  
D = 50° longitude and 20° latitude  
E = 0° latitude and 150° longitude  
F = 60° latitude and 120° longitude  
G = 0° longitude and 30° latitude  
H = 80° longitude and 20° latitude  
I = 150° longitude and 50° latitude.



Q2 - With the help of an atlas find out the longitudinal and latitudinal extension of following countries;

(a) India - Latitudinal extent =  $8^{\circ}4'N$  to  $37^{\circ}6'N$   
Longitudinal extent =  $68^{\circ}7'E$  to  $97^{\circ}25'E$

(b) Japan - Latitudinal extent =  $36.2048^{\circ}N$   
Longitudinal extent =  $138.2529^{\circ}E$

(c) South Africa - Latitudinal extent =  $30.5595^{\circ}S$   
Longitudinal extent =  $22.9375^{\circ}E$

(d) Iran - Latitudinal extent =  $32^{\circ}N$   
Longitudinal extent =  $53^{\circ}E$

(e) Canada - Latitudinal extent =  $42^{\circ}N$  to  $83^{\circ}N$   
Longitudinal extent =  $53^{\circ}W$  to  $141^{\circ}W$

3. What will be local time at Delhi  $77^{\circ}E$  longitude when it is 3 pm at Tokyo  $139^{\circ}E$  longitude?

Longitude of Delhi =  $77^{\circ}E$   
Longitude of Tokyo =  $139^{\circ}E$

Ans -



Difference is =  $139^\circ - 77^\circ = 62^\circ$

Time per degree (1) = 4

Time of  $62^\circ = 4 \times 62 = 248$  minutes =  
4 hours 8 minutes

As Delhi lies west of Tokyo we shall subtract 4h 8min from Tokyo time.

Ans - So, the local time at Delhi is 10:52am.

	H	MIN
	14	<del>50</del> <sup>10</sup>
3:00 =	15	00
4h 8min =	<u>04</u>	<u>08</u>
	10	52 am