

HW
11/07/21

Q2. With the help of atlas find out the longitudinal and latitudinal extension of following countries.

Country	Longitudinal extension	Latitudinal extension
India	$68^{\circ}7' E$ to $97^{\circ}25' E$	$37^{\circ}6' N$ to $8^{\circ}4' N$
Japan	$122^{\circ} E$ to $153^{\circ} E$	$20^{\circ} N$ to $45^{\circ} N$
South Africa	$25^{\circ} E$	$30^{\circ} S$
Canada	$53^{\circ} W$ to $141^{\circ} W$	$42^{\circ} N$ to $83^{\circ} N$
Iran	$44^{\circ}7' E$ to $61^{\circ}4' E$	$25^{\circ}2' N$ to $39^{\circ}6' N$

Q1. In the grid shown below some points are marked. Using the figures marked with the grid, identify the latitudes and longitudes of these points.

- Ans-
- B = 60° N , 120° W
 - C = 60° N , 60° E
 - A = 75° N , 90° W
 - D = 15° N , 45° W
 - E = 0° , 15° W
 - F = 60° S , 120° W
 - G = 30° S , 0°
 - H = 15° S , 75° E
 - I = 45° S , 150° E
 - J = 30° N , 180° E
 - N = 45° S , 60° E

Q.3. What will be local time at delhi 77° E longitude when is 3 p.m. at Tokyo 139° E longitude

Ans- Longitudes difference = $139^{\circ} - 77^{\circ} = 62^{\circ}$

Convert longitude difference to time = $62^{\circ} \times 4 \text{ mins} = 248 \text{ min} = 4 \text{ h } 8 \text{ min}$

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4h 8 min + 3 pm = ~~7h~~ 7:08 pm

because longitude 77° in east