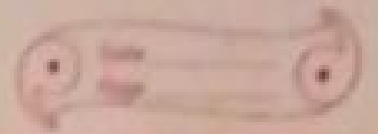


9/17/21

Home Assignment



1. a. $90^{\circ}\text{N}, 75^{\circ}\text{E}$
- b. $120^{\circ}\text{N}, 60^{\circ}\text{E}$
- c. $60^{\circ}\text{N}, 60^{\circ}\text{E}$
- d. $45^{\circ}\text{N}, 15^{\circ}\text{E}$
- e. $150^{\circ}\text{N}, 0^{\circ}\text{E}$
- f. $20^{\circ}\text{N}, 60^{\circ}$
- g. $0^{\circ}\text{N}, 30^{\circ}\text{E}$
- h. $75^{\circ}\text{N}, 15^{\circ}\text{E}$
- i. $75^{\circ}\text{N}, 45^{\circ}$
- j. $180^{\circ}\text{N}, 30^{\circ}\text{E}$

3 • Step 1 = Longitude difference
 $= 134^{\circ} - 72^{\circ} = 62^{\circ}$

• Step 2 = convert longitude difference to time
 $= 62^{\circ} \times 4 \text{ min} = 248 \text{ min} = 4 \text{ hours } 8 \text{ mins}$

• Step 3 = add or subtract time
 $3 \text{ pm} - 4 \text{ hours } 8 \text{ min} = 15 \text{ hours} - 4 \text{ hours } 8 \text{ min}$
 $= 10 : 52 \text{ am}$

India

2. a) The latitudinal extent of India from the north end Kashmir to south end Kanyakumari is $37^{\circ}6'N$ to $5^{\circ}4'N$.
- The longitudinal extent of India from west end Gujarat to east end Arunachal Pradesh is $68^{\circ}7'E$ to $97^{\circ}25'E$.
 - On calculating both of these extents we get to that these are approximately of 30° .

b) Japan

The latitude of Japan is $36.2048^{\circ}N$ and the country's longitude is $138.2529^{\circ}E$.

c) South Africa

The latitude of South Africa is $30^{\circ}S$ and longitude $25^{\circ}E$.

d) Canada

Canada's ~~total~~ latitude and longitude is $60^{\circ}N$ $95^{\circ}W$.

e) Iran's latitude and longitude is $32^{\circ}N$
and $53^{\circ}E$.