

21. On the surface of the earth, A (50°N , 80°E) and B (50°N , 120°E) are two separate places. Given that the radius of the earth is 6370km , $\pi = \frac{22}{7}$ and the local time at B is 12.30 p.m.

a) Find the time at A.

[2 marks]

$$\begin{aligned} \text{Longitude difference} &= 120 - 80 \\ &= 40^{\circ} \end{aligned}$$

$$\begin{aligned} \text{Time difference} &= \frac{40 \times 4}{60} \quad \checkmark M_1 \\ &= 2\text{h } 40\text{min} \end{aligned}$$

$$\begin{aligned} \text{Time at A} &= 12:30\text{pm} - 2\text{h } 40\text{min} \\ &= 9:50\text{am} \quad \checkmark M_1 \end{aligned}$$

b) Calculate the shortest distance between A and B in km.

[3 marks]

$$\begin{aligned} \theta &= 180 - 50 \times 2 \\ &= 80^{\circ} \quad \checkmark B_1 \end{aligned}$$

$$\begin{aligned} \text{Distance} &= \frac{80}{360} \times 2 \times \frac{22}{7} \times 6370 \quad \checkmark M_1 \end{aligned}$$

$$= 8897 \frac{3}{9} \text{ km} \quad \checkmark A_1$$

c) If C (0° , 80°E), find the distance between A and C in km.

[3 marks]

$$\text{Latitude difference} = 50^{\circ} \quad \checkmark B_1$$

$$\text{Distance} = \frac{50}{360} \times 2 \times \frac{22}{7} \times 6370 \quad \checkmark M_1$$

$$= 5561 \frac{1}{9} \text{ km} \quad \checkmark A_1$$

d) Another town D is 3000km west of A, find its position.

[2 marks]

$$\begin{aligned} 60\theta \text{ or } 60 \times 50^{\circ} &= 3000 \quad \checkmark M_1 \\ \theta &= 77.78619134^{\circ} \end{aligned}$$

$$\begin{aligned} X &= 80 - \theta \\ &= 2.213808657^{\circ} \end{aligned}$$

$$D (50^{\circ}\text{N}, 2.214^{\circ}\text{E}) \quad \checkmark A_1$$

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