

Q1. No Examiner's Report available for this question

Q2.

Most candidates were able to perform the conversion between time difference (between mean and solar time) and longitude in part (i). A number were confused as to whether their answer of 20° indicated that the ship had travelled east or west resulting in some candidates calculating 110°W for part (ii).

The astronomer's ship has been sailing for several days.

When it is local noon at the ship's location, an accurate clock on board shows that it is 13:20 at its home port.

- (i) Calculate how many degrees of longitude the ship has covered since leaving its home port.

$$1:20 = 80 \text{ minutes} \quad (2)$$

$$\frac{80}{4} = 20^\circ$$

Answer = 20°

The ship's home port has a longitude of 130°W .

- (ii) Calculate the ship's current longitude.

(2)

$$130 - 20 = 110 \text{ W}$$

Answer = 110° W

Results Plus: Examiner Comments

Although a straightforward calculation, the steps are presented clearly in this correct solution.

- Q3. No Examiner's Report available for this question
- Q4. No Examiner's Report available for this question
- Q5. No Examiner's Report available for this question
- Q6. No Examiner's Report available for this question
- Q7. No Examiner's Report available for this question
- Q8. No Examiner's Report available for this question
- Q9. No Examiner's Report available for this question
- Q10. No Examiner's Report available for this question
- Q11. No Examiner's Report available for this question