

NOT TO SCALE

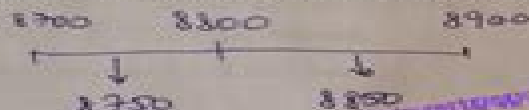
Calculate the length of AB .

$$\cos 28^\circ = \frac{AB}{8}$$

$$AB = 8 \cos 28^\circ \approx 7.06358 \dots \approx 7.06 \text{ (3 sf)}$$

Answer $AB = 7.06$ cm [2]

- 11 The height of Mount Everest is 8800 m, correct to the nearest hundred metres.

Complete the statement about the height, h metres, of Mount Everest.Answer $8750 \leq h < 8850$ [2]

- 12 Colin is travelling from Sydney, Australia, to Auckland, New Zealand.

- (a) Colin's bus leaves for Sydney airport at 12:38.
The bus arrives at the airport at 13:24.

$$\begin{array}{lcl} 12:38 & \rightarrow & 13:00 & 22 \text{ min} \\ 13:00 & \rightarrow & 13:24 & 24 \text{ min} \end{array}$$

How many minutes does the bus journey take?

Answer (a) 46 min [1]

- (b) Colin's flight from Sydney to Auckland leaves at 14:45 local time and takes 3 hours 20 minutes.
The time in Auckland is 2 hours ahead of the time in Sydney.

$$\begin{array}{l} 14:45 + 3 \text{ h } 20 \text{ min} \\ 18:05 \text{ time in Sydney} \end{array}$$

What is the local time in Auckland when his flight arrives?

Answer (b) 20:05 [2]



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