



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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web 3 2 2 references what is reflection when a ray of light comes back into the same medium after striking the surface of another medium then the phenomenon is called reflection of light in other words reflection is the bouncing back of the light rays from a surface in the same medium what is refraction

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