

- 1 Mr Chan flies from London to Los Angeles, a distance of 8800 km.  
The flight takes 11 hours and 10 minutes.

- (a) (i) His plane leaves London at 0935 local time.  
The local time in Los Angeles is 8 hours behind the time in London.

Calculate the local time when the plane arrives in Los Angeles.

$$\begin{array}{r} 01:35 \\ 11:10 \\ \hline 12:45 \end{array}$$

12:45 [2]

- (ii) Work out the average speed of the plane in km/h.

$$\frac{8800}{11 \frac{10}{60}} = \frac{8800}{67\frac{1}{6}} = \frac{52800}{67} = 788.059 \dots$$

788 km/h [2]

- (b) There are three types of tickets, economy, business and first class.  
The price of these tickets is in the ratio economy : business : first class = 2 : 5 : 9.

- (i) The price of a business ticket is \$2350.

Calculate the price of a first class ticket.

$$\begin{array}{l} 5x = 9 \times 2350 \\ 2350 : x \\ x = \frac{9 \times 2350}{5} \end{array}$$

\$ 4230 [2]

- (ii) Work out the price of an economy ticket as a percentage of the price of a first class ticket.

$$\frac{2}{9} = 0.\dot{2} = 22.2\%$$

22.2 % [1]

- (c) The price of a business ticket for the same journey with another airline is \$2240.

- (i) The price of a first class ticket is 70% more than a business ticket.  $\rightarrow NP = 170\% = 1.7$

Calculate the price of this first class ticket.

$$2240 \times 1.7 = 3808$$

\$ 3808 [2]

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