- 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.

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

Time = 11 h 10 min Speed =
$$\frac{Distance}{Time}$$

= $11\frac{10}{60}h$
= $11\frac{10}{6}h$
= $\frac{67}{6}h$
= $\frac{67}{6}h$
= $\frac{67}{6}h$
= $\frac{788.0597...km/h}{2.788.km/h}$

- = 788.0597 ... km/h 788 km/h [2] \$ 788 km/h
- (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.

$$\frac{9}{5} \times $2350 = $4230$$

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

$$\frac{2}{9} \times 100\% = 22.2222...\%$$

- (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.

Calculate the price of this first class ticket.

$$\frac{70}{100} \times $2240 = $1568$$