MEGA LECTURE

Time

Question Paper 2

Level	IGCSE
Subject	Maths (0580)
Exam Board	Cambridge International Examinations (CIE)
Paper Type	Extended
Topic	Number
Sub-Topic	Time
Booklet	Question Paper 2

Time Allowed: 40 minutes

Score: /33

Percentage: /100

Grade Boundaries:

A*	A	B	C	D	E	U
>85%	75%	60%	45%	35%	25%	<25%

1   At 05 06 Mr Ho bought 850 fish at a fish market for $2.62 each.
    95 minutes later he sold them all to a supermarket for $2.86 each.

(a) What was the time when he sold the fish?

Answer(a) .... [1]

(b) Calculate his total profit.

Answer(b) $ .... [1]

2   The Canadian Maple Leaf train timetable from Toronto to Buffalo is shown below.

Toronto	10 30
Oakville	10 52
Aldershot	07
Grimsby	11 41
St Catharines	11 59
Niagra Falls	12 24
Buffalo	13 25

(a) How long does the journey take from Toronto to Buffalo?

Answer(a) .... h .... min [1]

(b) This journey is 154 kilometres. Calculate the average speed of the train.

Answer(b) .... km/h [2]

3

Distance from
Hilltown (km)

Time
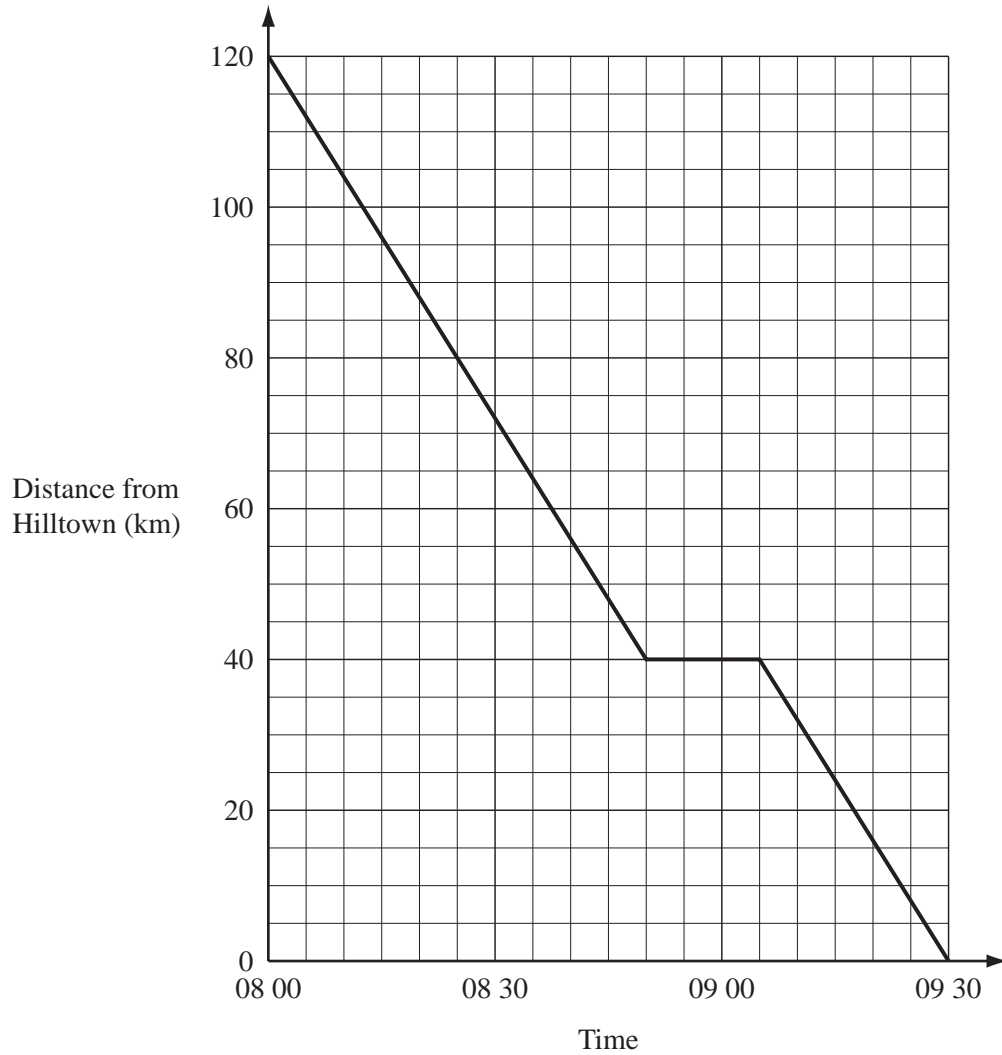
The graph shows the distance, in kilometres, of a train from Hilltown.

Find the speed of the train in kilometres per hour at

(a) 08 30,

Answer(a) .... km/h [2]

(b) 09 00.

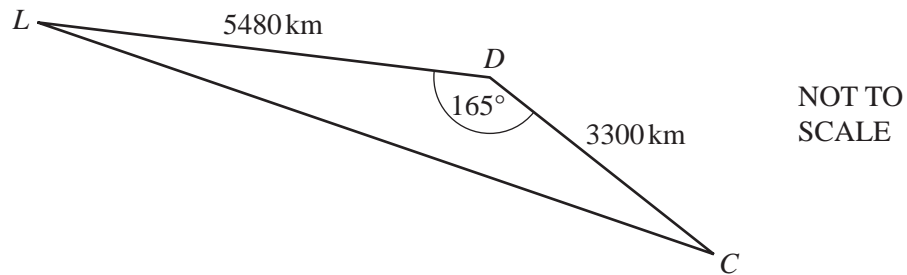*Answer(b)* .... km/h [1]

4   A train left Sydney at 23 20 on December 18th and arrived in Brisbane at 02 40 on December 19th.
     How long, in hours and minutes, was the journey?

Answer .... h .... min [1]

5

The diagram shows the positions of London (*L*), Dubai (*D*) and Colombo (*C*).

(a)   Show that *LC* is 8710 km correct to the nearest kilometre.

Answer(a)(i)

[4]

(ii) Calculate the angle *CLD*.

Answer(a)(ii) Angle *CLD* = ...   [3]

(b) A plane flies from London to Dubai and then to Colombo.
It leaves London at 01 50 and the total journey takes 13 hours and 45 minutes.
The local time in Colombo is 7 hours ahead of London.
Find the arrival time in Colombo.

Answer(b) .... [2]

(c) Another plane flies the 8710 km directly from London to Colombo at an average speed of 800 km/h.
How much longer did the plane in **part (b)** take to travel from London to Colombo?
Give your answer in hours and minutes, correct to the nearest minute.

Answer(c) .... h .... min

6 A train starts its journey with 240 passengers.
144 of the passengers are adults and the rest are children.

(a) Write the ratio   Adults : Children   in its lowest terms. [2]

(b) At the first stop, $37\frac{1}{2}\%$ of the adults and $\frac{1}{3}$ of the children get off the train.
20 adults and x children get onto the train.
The total number of passengers on the train is now 200.

    (i) How many children got off the train? [1]

    (ii) How many adults got off the train? [1]

    (iii) How many **adult** passengers are **on** the train as it sets off again? [1]

    (iv) What is the value of x? [1]

(c) After a second stop, there are 300 passengers on the train and the ratio

    Men : Women : Children   is 6 : 5 : 4.

Calculate the number of children now on the train. [2]

(d) On Tuesday the train journey took 7 hours and 20 minutes and began at 13 53.

    (i) At what time did the train journey end? [1]

    (ii) Tuesday's time of 7 hours 20 minutes was 10% more than Monday's journey time.
How many minutes longer was Tuesday's journey? [2]