

- 1 Here is part of a train timetable for a journey from London to Marseille.  
All times given are in local time.  
The local time in Marseille is 1 hour ahead of the local time in London.

London	07 19
Ashford	07 55
Lyon	13 00
Avignon	14 08
Marseille	14 46

- (a) (i) Work out the total journey time from London to Marseille.  
Give your answer in hours and minutes.

$$13 \ 46$$

$$07 \ 19 \ 10 \ 13 \ 19 \Rightarrow 6 \text{ hrs}$$

$$46 - 19 = 27$$

..... 6 ..... h ..... 27 ..... min [2]

- (ii) The distance from London to Ashford is 90 km.  
The local time in London is the same as the local time in Ashford.

Work out the average speed, in km/h, of the train between London and Ashford.

$$S = \frac{D}{T}$$

$$T = 55 - 19 = 36 \text{ min} \Rightarrow 0.6 \text{ h}$$

$$\frac{90}{0.6} = 150$$

$$\frac{90}{0.6} = 150 \text{ km/h}$$

..... 150 ..... km/h [3]

- (iii) During the journey, the train takes 35 seconds to completely cross a bridge.  
The average speed of the train during this crossing is 90 km/h.  
The length of the train is 95 metres.

Calculate the length, in metres, of this bridge.

$$\text{Distance travelled} = \text{length of bridge} + 95 \text{ m}$$

$$\text{Distance travelled} = 90 \text{ km/h} \times 35 \text{ s}$$

$$= 90 \times \frac{35}{3600} = 0.875 \text{ km} = 875 \text{ m}$$

$$875 - 90 = 785 \text{ m}$$

..... 785 ..... m [4]

# Past Exam Answers Of 0580 M J 07

**Massachusetts. State Board of Health**

## Past Exam Answers Of 0580 M J 07:

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