The City School

**Past Paper Questions – CIE**

Time

MATHEMATICS

Class 7

**Questions**

**01.** A journey started at 07 44 and finished at 11 32. How long, in hours & minutes, did the journey take? **(Nov 13 Paper 12 Q4a)**

**02.** A boat sails around a course represented by triangle *ABC*. It started at 13 38 and finished at 14 21. How many minutes did it take? **(Nov 13 paper 11 Q10c)**

**03.** The ship left P at 21 40 and returned to P at 05 33 the following day. Find the length of time, in hours and minutes, between leaving P and returning to P **(Nov 12 Paper 12 Q8b)**

**04.** Pierre goes on a holiday from France to the UK. (a) His journey takes 4 hours and 43 minutes. It ends at 02 13 on Saturday. At what time on Friday does his journey start? **(Nov 12 Paper 11 Q5a)**

**05.** Gill swims for 1 hours and ends her swim at 11 05. At what time did she begin her swim? **(Jun 12 Paper 11 Q13bi)**

**06.** Fariza travels from London to Astana. The time in Astana is 5 hours ahead of the time in London, so when it is 1000 in London the local time in Astana is 1500. She flies from London to Moscow and then from Moscow to Astana. The flight leaves London at 1225 and takes 4 hours to reach Moscow. Fariza waits 4 2 1 hours in Moscow for the flight to Astana. She arrives in Astana at 0525 local time. How long did the flight from Moscow to Astana take? **(Jun 15 paper 12 Q 05)**

**Past Paper Questions – City School**

**Questions**

**01.** A train took 4 hours to travel from Town A to Town C, making a stop at Town B along the way. The graph shows the position of the train at any given time during the journey from A to C. **(EOY Paper 2013-2014 Q8c)**

I. How far is town B from town A?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

II. How long did it take the train to reach town B?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

III. For how long did the train stop at town B?

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IV. Where was the train after it had been travelling for 1 hour?

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**Workbook Questions – NSM 01**

Q no 64) Express 40 minutes after 5:55 pm using the 24 hour clock notation.

Q no 65) A train leaves town A at 22 17 and arrives in town B at 07 17 the next day. How long does the whole journey take?

Q no 66) A bus leaves town X at 21 30 and arrives in town Y at 08 00 the next day. Calculate:

I. The time taken for the journey.

II. The average speed of the bus given that the distance from town X to town Y is 651 km.

Q no 67) Peter was supposed to meet Paul one evening at 19 50. Paul arrived at the exact time but Peter arrived a quarter to ten. Who arrived first? For how long did one wait for the other?

Q no 68) A car is parked in a car park from 07 45 to 16 30 on the same day. Find:

I. the total time for which the car is parked.

The parking fee if the rate of charges is $2.50 for the first hour and 89 cents for each half hour or part of a half hour thereof.

Q no 69) It takes a cyclist 44 minutes to cycle a distance of 11 km.

(a) How long will it take him to cycle a distance of

(i) 45 km (ii) 36 km (iii) 20 km

(b) What is the speed of the cyclist in km/h?

Q no 70) Mr Chai leaves his house at 98 37 and travels by motor cycle to a railway station which is 27 km away. If he arrives at the station 36 minutes later, find the average speed at which he travels in km/h. How long does he have to wait if the train, due at 09 42, is 11 minutes late?

Q no 71) A family travelled from Singapore to Penang. Shown below is a copy of their time table.

|  |  |  |  |
| --- | --- | --- | --- |
| From | To | Time Required | |
| Singapore | Johor Baru |  | 40 min  30 min (Breakfast) |
| Johor Baru | Kuala Lampur | 5 h | 35 min  55 min (Lunch) |
| Kuala Lampur | Ipoh | 3h | 12 min |
| Ipoh | Penang | 1 h | 58 min |

Given that they left Singapore at 05 30, when did they arrive in Penang?

Q no 85) A train left town A at 08 45 and arrived in town B at 15 10.

(a) How long did the journey take?

(b) Find the distance between town A and town B given that the speed of the train was 108 km/h

Q no 86) A motorist starts traveling at 23 17 on a 172 km journey. At what time will he arrive at his destination given that he travels at an average speed of 48 km/h.

Q no 87) If light can travel 31 times around the world in 4 seconds, how many times can it circle the world in 10 seconds?

Q no 89) A motorist starts to travel on a 272 km journey at 11 13. At what time will he reach the destination given that he travels at an average speed of 24 km/h. He leaves at 17 55 for the return journey and arrives at the starting point at 23 35. Calculate the time taken and the average speed for the return journey.