Test - Line graphs and timetables

Year: Year 5 · Duration: 40 minutes · /20

Name:	Date:	**Mark:** /20

Question	1	2	3	4	5	Total
marks	4	4	4	3	5	**20**
Mark						

Show your working.

Question 1 (4 marks)

Question 1 – Reading a graph

The table shows the number of visitors to a park each hour.

Time	10 am	11 am	12 noon	1 pm	2 pm
Visitors	30	45	80	70	50

(a) What was the highest number of visitors, and at what time? (1 mark)

(b) How many more visitors came at 12 noon than at 10 am? (1 mark)

(c) What was the fall in visitors from 12 noon to 2 pm? (1 mark)

(d) What scale could you use on the vertical axis when drawing a line graph? (1 mark)

Question 2 (4 marks)

Question 2 – Timetables

Part of a train timetable is shown.

Station	Train 1	Train 2
Derby	10:20	11:50
Leicester	10:55	12:25
Peterborough	11:50	13:20

(a) When does Train 2 leave Leicester? (1 mark)

(b) How long does Train 1 take from Derby to Peterborough? (1 mark)

(c) Sam reaches Derby station at 11:05. Which train can he catch and how long does he wait? (2 marks)

Question 3 (4 marks)

Question 3 – The 24-hour clock

(a) Write 4:35 pm in the 24-hour clock.

(b) Write 21:10 in the 12-hour clock using am or pm.

(c) A film starts at 17:45 and ends at 19:30. How long is it?

(d) A bus leaves at 08:50 and the journey takes 55 minutes. When does it arrive?

Question 4 (3 marks)

Question 4 – Graph reasoning

A line graph of the temperature through a day goes up from 6 am to 2 pm, then goes down.

(a) What does a flat section in a line graph mean? (1 mark)

(b) The temperature at 8 am is 10°C and at 10 am is 16°C. Estimate the temperature at 9 am. (1 mark)

(c) Why is your answer to (b) only an estimate? (1 mark)

Question 5 (5 marks)

Question 5 – The school journey

Year 5 go by coach to a farm. The coach leaves school at 09:20 and arrives at the farm at 10:35. The children stay at the farm until 14:50, then travel back and arrive at school at 16:10.

(a) How long is the journey to the farm? (1 mark)

(b) How long do the children stay at the farm? (2 marks)

(c) How long is the journey back? (1 mark)

(d) Is the journey back longer or shorter than the journey there, and by how much? (1 mark)