





Please DO NOT write on the sheets

Please DO NOT write on the sheets

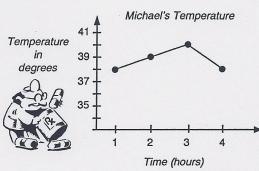
#### Displaying Data:

### Time-Series Graphs

Data that changes with time can be graphed on a time-series graph.

Example:

Michael has been unwell. He recorded his temperature every hour for 4 hours. These results are shown on the graph.



All time-series graphs should have ....

- a title or name,
- time on the bottom axis
- label and scale on each axis
- □ or X to mark each point, joined by lines.

From this graph we can see that Michael's temperature was 39°C after two hours. What was his temperature after 4 hrs?

# **Creating Time-Series Graphs**

#### Task 15

During a school week, Monday to Friday, Wendy recorded the number of pupils away from class each day.

Below is a table of her findings.

Mon	Tues	Wed	Thur	Fri
5	2	3	1	4

Each day for a week, starting on Sunday, the

air temperature ( $^{\circ}C$ ) at the airport at 3:00

p.m. was recorded. These were the results.

19°C

24°C

26°C

13°C

Every day after school, for 1 week, the number of cars parked in the wrong place outside the school gate was noted.

- These results are shown in the table. 4. Create a time-series graph to display these results.
- 5. On what day were there 5 cars parked in the wrong place?
- What would be a good way to tell the parents NOT to park in the wrong place?



Mon	Tues	Wed	Thur	Fri

On what day were there 2 pupils

Create a time-series graph to

On what day of the week were the

display these results.

most pupils away?

away?

Mon	Tues	Wed	Thur	Fri
3	5	2	6	4





Every day Jim goes for a run around the same course. He records the time it takes him, to the nearest minute. He has run 7 times so far and these are his times.

17	18	16	17	16	16	15

7. Create a time-series graph to display his times.

18°C

What was his most common time taken to run the course?



Create a time-series graph to display these results.

What day(s) of the week was the 10. temperature highest?

On what day do you think it might have rained? Explain why.



**Collecting Time-Series Data** 

# Task 16

26°C

Using a thermometer, record the temperature of your classroom every 30 minutes, or each hour, of the school day. Create a time-series graph of your results.

23°C