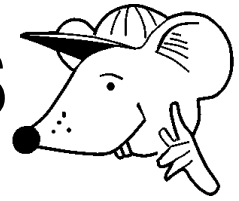


MATHEMATICS



Graphs and Tables Booster Pages

Equipment

Paper, pencil.

MathSphere

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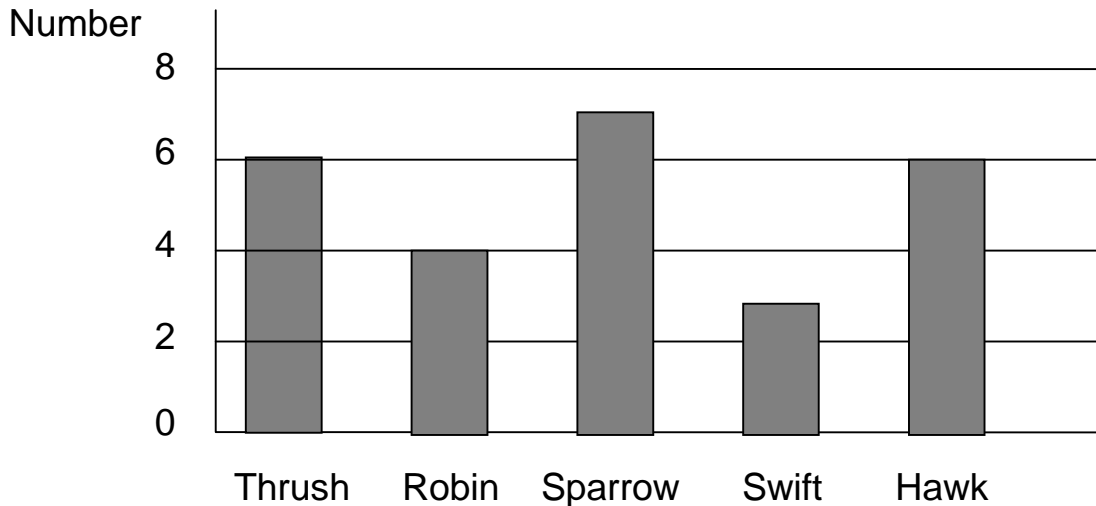
Structure

The questions in this module provide practice in the type of questions found in the topic of GRAPHS and TABLES for levels 3 and 4 in the NCT test papers (SATs).

They are designed to help children who are hesitant around the level 3/4 boundary and who could be given a better chance to obtain level 4 with suitable extra practice.

The difficulty of the questions generally increases as children progress from the beginning of the module to the end.

- 1) Here is a bar chart showing the number of birds that flew into a garden one day.



How many Robins flew into the garden?

How many Swifts flew into the garden?

Which **two** species of bird had the same number of visits?

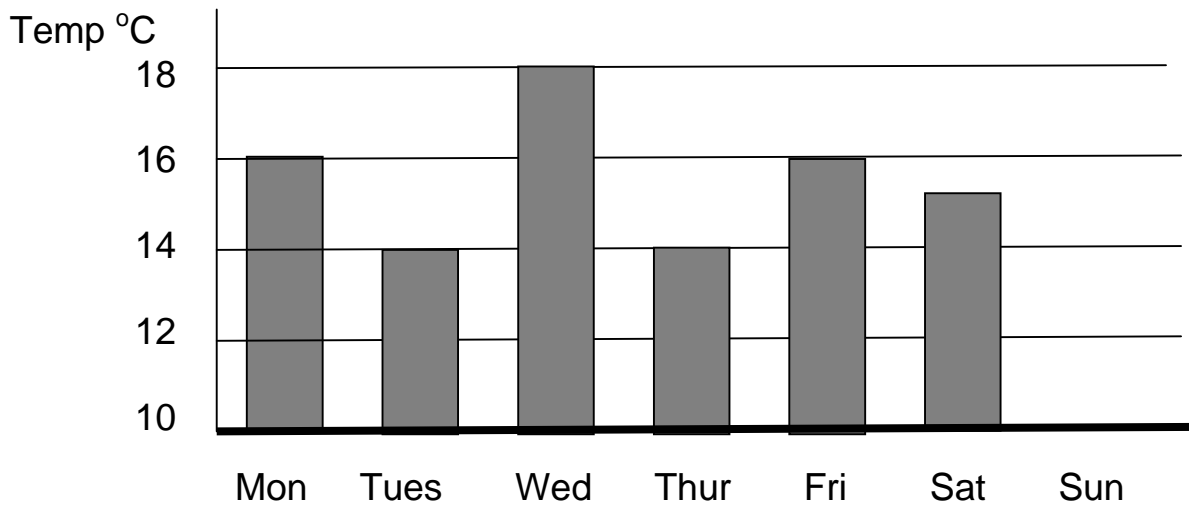
 and

- 2) Sam buys chocolate bars in a shop. The table shows the price of the chocolate bars.

Name of Bar	Small	Large
Chocco	23p	56p
Nutto	27p	48p
Fruito	25p	54p
Creamo	30p	61p

Sam buys **two small Nutto bars** and **one large Creamo bar**.
How much does this cost altogether?

1) Here is a graph of temperatures outside at midday during one week:



What was the temperature at midday on Thursday?

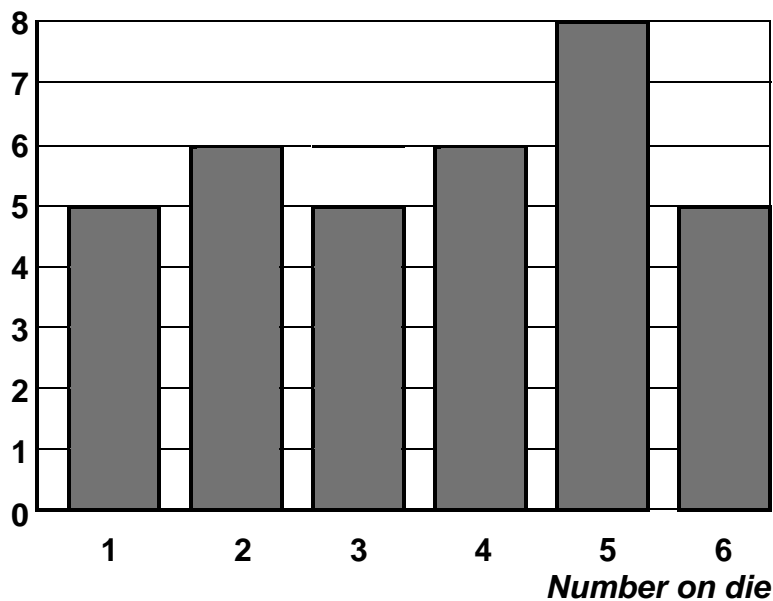
What was the temperature at midday on Saturday?

The temperature on Sunday was 13°C.

Draw a block on the graph to show this temperature.

2) Larry threw a dice several times. Here is a graph of his results.

Frequency



How many times did Larry throw the dice altogether?

- 1) Here is a tally chart of the number of items of fruit bought at a school canteen in ten minutes.

Fruit	Frequency
Apple	////
Banana	
Pear	### ## ///
Orange	### ### ## //
Plum	

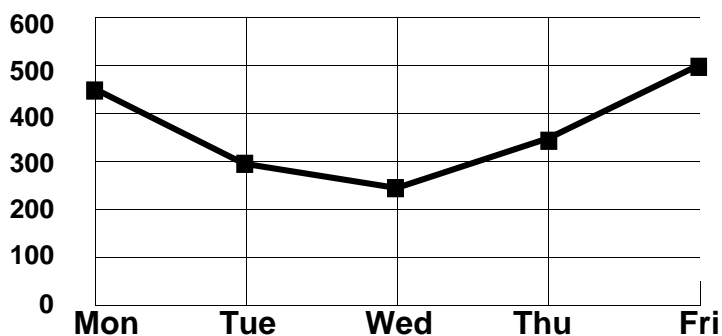
How many apples were bought?

How many oranges were bought?

Eight bananas and twenty-three plums were bought. Put the tallies for these numbers on the chart.

- 2) This graph shows the amount of money taken by the school canteen in a week.

Amount £



- a) How much money was taken on Friday?
- b) How much money was taken on Thursday?
- c) How much more money was taken on Monday than on Tuesday?
- d) On which day was the least amount of money taken?

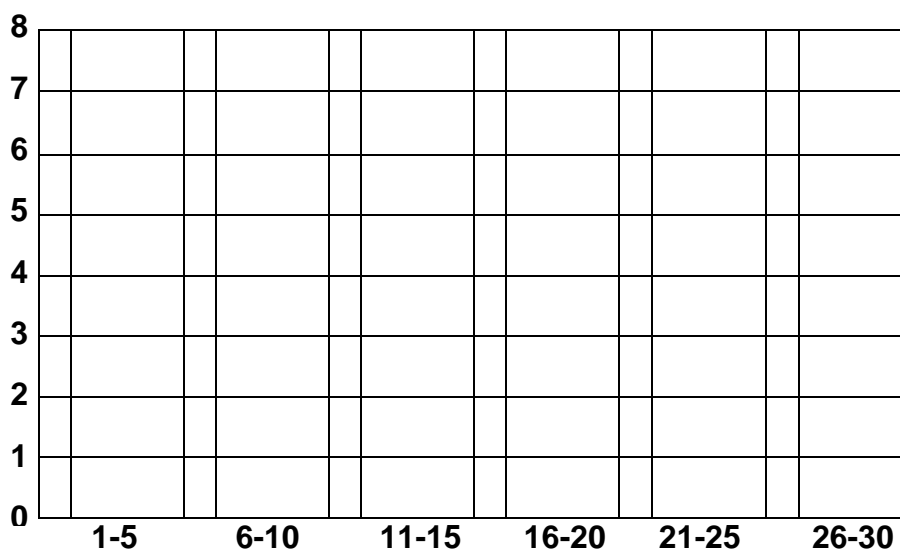
- 1) 30 children in a table tennis club kept a record of how many matches they had won during the season. Here are their results:

3, 12, 15, 23, 4, 5, 22, 17, 9, 1, 4, 15, 21, 8, 6, 26, 17, 23,
6, 3, 15, 9, 6, 26, 2, 11, 19, 3, 6

Put these in the table in groups of five (1 - 5, 6 - 10 and so on).
The first has been done for you.

Number of wins	Frequency
1 - 5	8
6 - 10	
11 - 15	
16 - 20	
21 - 25	
26 - 30	

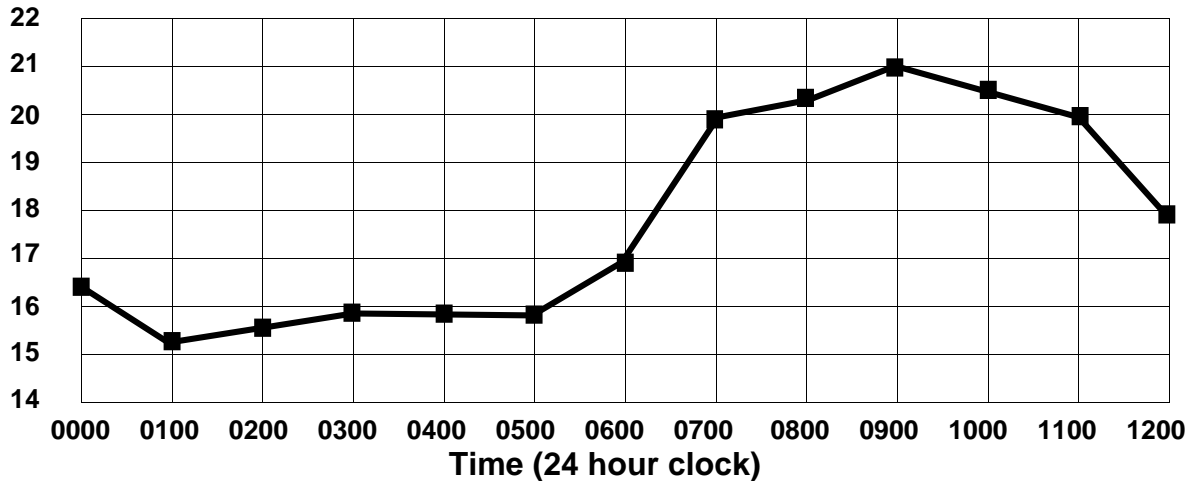
Now draw a block graph of these results. Label the axes.



- a) How many children won between eleven and fifteen matches?
- b) How many children won between sixteen and thirty matches?
- c) Which is the modal group (the group with the highest number of wins)?

- 1) Here is a graph of the temperature in a kitchen over a twelve hour period.

Temp
°C



- a) What was the temperature at 0600 ?

- b) Estimate the temperature at 1130.

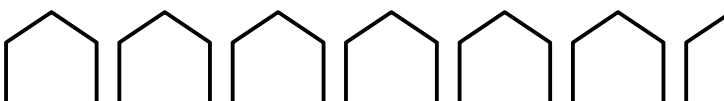
- c) At what time do you think the central heating was switched on?

- d) During which times did the temperature remain constant?

- 2) This symbol represents **20** houses on a pictogram. 

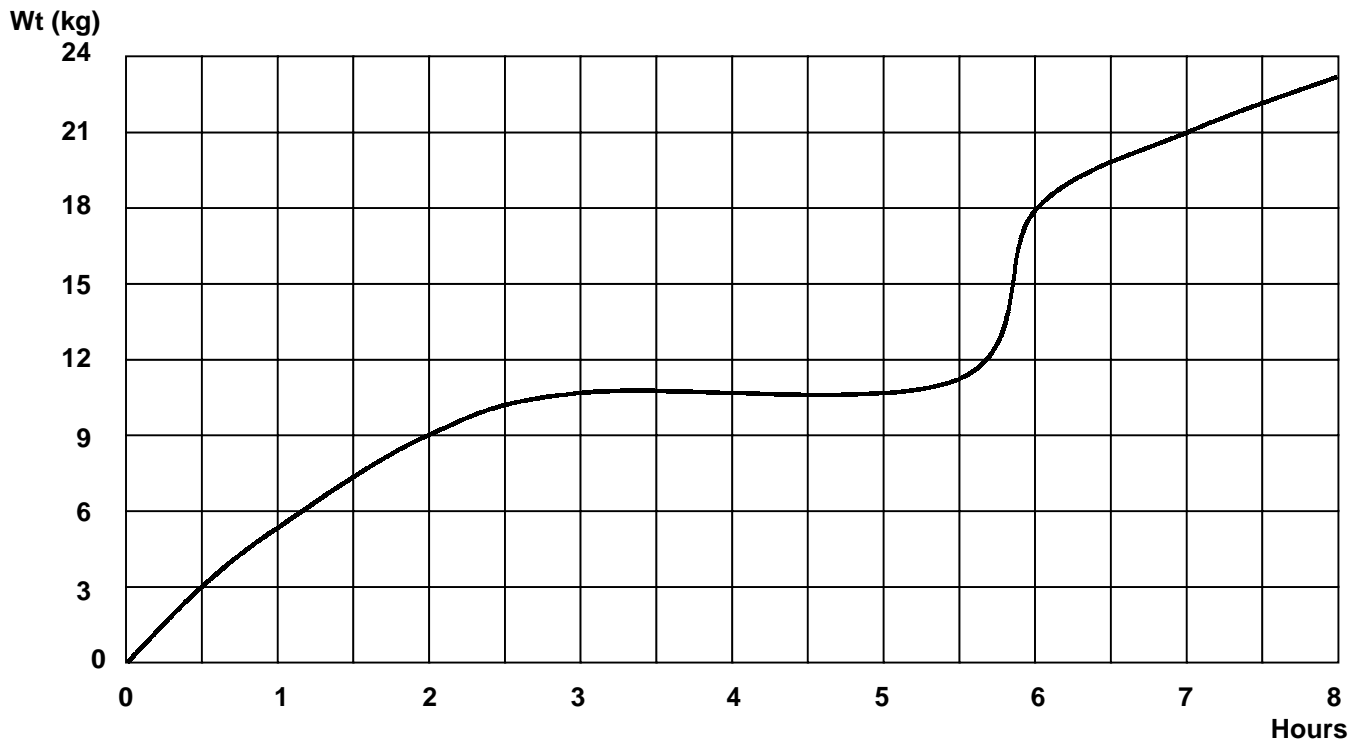
What do these groups of symbols represent?





- 1) Michelle's parents had a leak in their conservatory roof and put a large bucket underneath it when it rained.

Michelle weighed the bucket every half hour for eight hours.
Here is a graph of her results.



How much rain did she collect in the first 30 minutes?

How much had she collected by the end of the first two hours?

Estimate how much she collected between the fifth hour and the seventh hour.

During which times did it stop raining?

 and

Answers

Page 3

1. 4 robins 3 swifts thrush and hawk 2. 115p or £1.15

Page 4

1. Thur: 14 °C Sat: 15 °C Draw block graph 2. 35

Page 5

1. 4 apples 17 oranges Tallies for 8 and 23 respectively
2. a) £500 b) approx £340 c) approx £150 d) Wednesday

Page 6

1. 1-5 8
 6-10 7
 11-15 5
 16-20 3
 21-25 4
 26-30 2

Draw graph

a) 5 b) 9 c) 1-5 group

Page 7

1. a) 17°C b) approx 19°C c) 0500 approx d) 0300 to 0500
2. 100 houses 130 houses

Page 8

1. 3kg 9kg approx 10.5kg approx between hours 3 and 5