

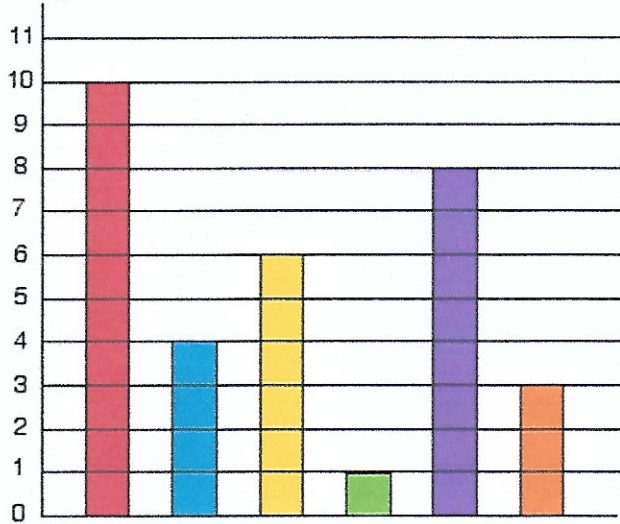
The Pet Graph

Age 7 to 11

Challenge Level

Tim's class collected information about all their pets. They have six different kinds of pets between them.

This is the block graph they are making to show how many of each pet the class has altogether.



The children have not yet put in the animal names under each column. Can you do this for them using the information below?

There are two less cats than dogs.

Only one child has a parrot at home.

The number of fish added to the number of gerbils is equal to the number of dogs.

There are twice as many fish as hamsters.

There are half the number of gerbils as there are cats.

How Big Are Classes 5, 6 and 7?

Age 7 to 11

Challenge Level

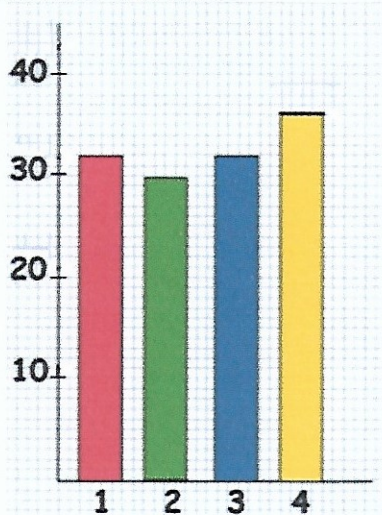
Four pupils from Class 4, Ben, Ali, Katie and Charlene, decided to make graphs of the sizes of the seven classes in the school.

Ben and Ali found out how many children there were in Classes 1, 2 and 3.

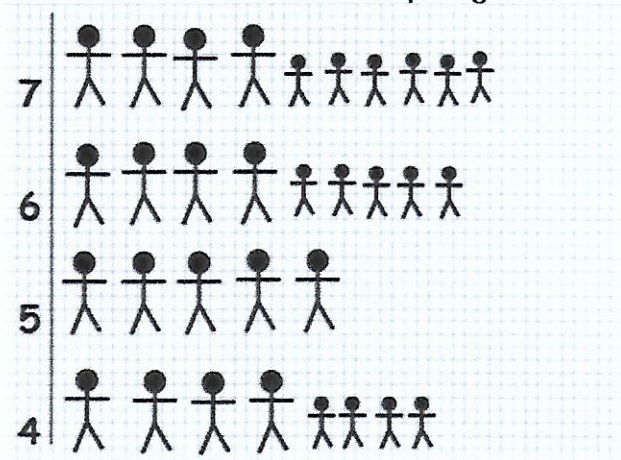
Katie and Charlene found about Classes 5, 6 and 7.

Of course they all knew the number of children in Class 4.

Ben and Ali drew a bar chart. It looked like this:



Katie and Charlene drew this pictogram:



Kate and Charlene have forgotten to add a key to their pictogram. What should the key say?

How many children were there altogether in Classes 5, 6 and 7?

Class 5's Names

Age 7 to 11

Challenge Level

Here are the lists of first names of the members of Class 5. (They are in alphabetical order of their surnames so they do not seem to be ordered.)

Girls in Class 5	Boys in Class 5
Hetty	David
Annie	Nelson
Tessa	Ali
Debbie	Jake
Willow	Harry P
Jess	William
Abby	Ben
Sindy	Tom
Penny	Dai
Bel	Arlo
Sara	Andrew
Pippa	Harry W
Selma	Tim
Becky	Joe
Mel	Alan
Pauline	James
Netty	Jeff
	Mohammed

One day when 34 children were in class, Mrs Clifton, their teacher, said they were going to make some block graphs and other things using their first names. She put the class lists onto the white board.

First, the class made tally charts of the initial letters of their names. They worked in pairs. The first part of Becky and Selma's tally looked like this:

Tally

A + + + + |

B | | |

C

D | | |

E

Can you make a full tally chart using the class names?

Next they all made frequency tables using this information. This is the first part of Alan and Joe's table:

Frequency table

A - 6

J - 5

B - 3

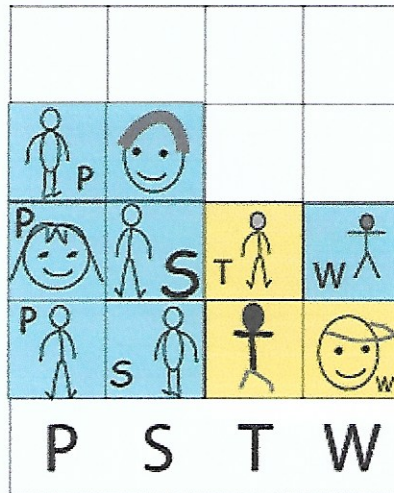
H - 3

D - 3

Can you make a frequency table using all the class's names?

Next they decided which letters of the alphabet were needed and which were not needed to make a block graph of their class names. Then the boys took yellow squares and the girls took pale blue squares, drew a picture of themselves and put the initial of their first name on the square and stuck it onto paper to make a pictogram graph.

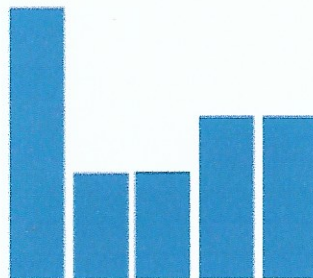
The last part of the class's block graph looked like this:



Can you see who was away from school that day from this information?

Next they made true block graphs from the class lists to include anyone who was away that day.

This is part of the middle of the block graph:



Can you tell what letters these were?
Can you make a block graph of all the class?