



MATHEMATICS



N.S. Yr. 3 P.91

Collect, sort and organise information

Equipment

Paper, pencil, ruler

MathSphere

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Concepts

This module deals with the collection and organisation of information. A small number of examples have been included, but the main objective of is for children to create their own surveys. Whilst doing this they should be thinking about the following questions:

1. What do I want to find out?
2. How can I find out?
3. What information am I going to collect?
4. How am I going to collect it?
5. How will I show my results?
6. Have I checked with my teacher that I can do it?

Any data collected should be easily available so that more emphasis can be put on creating a table of results and then interpreting it.

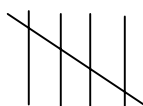
Again, a key part of this is to ask questions about the results, such as:

1. Which is the most popular?
2. Which is the least popular?
3. Would the answers be the same if we asked our parents?
4. How might the table change if everyone had 2 votes?
5. If we asked 100 children would the same one still be the most popular?
6. Who might find this information useful?
7. What problems did you have in getting the information?

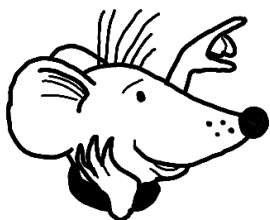
A number of terms should be used in discussion, including:

Sort, chart, table, list, tally, most/least popular/common., represent.

Children could also be shown how to create a tally using lines:



5 counting as 4 straight lines and the fifth cutting across. This makes it much easier to count larger tallies, in fives.

Even or not even?

Below are lots of multiples of 5.
Sort them out into even and odd
numbers and put them in the
table.

25

50

10

65

40

70

35

5

20

15

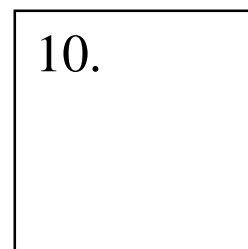
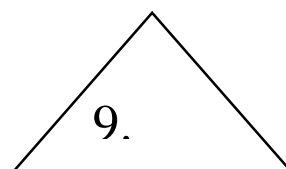
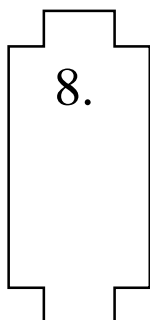
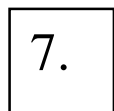
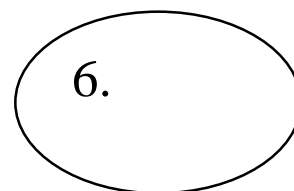
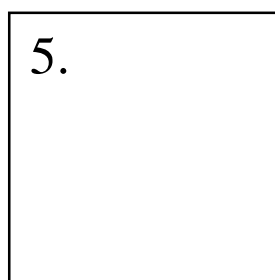
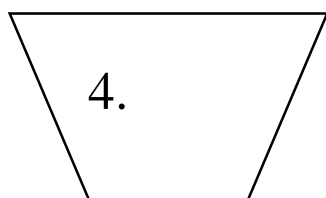
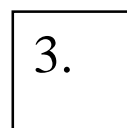
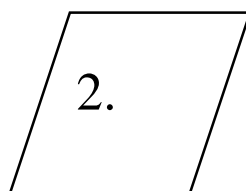
45

30

Even	Odd

Square shapes?

**These shapes are either squares or not squares.
Put the numbers in the Venn diagram to show which they are.**

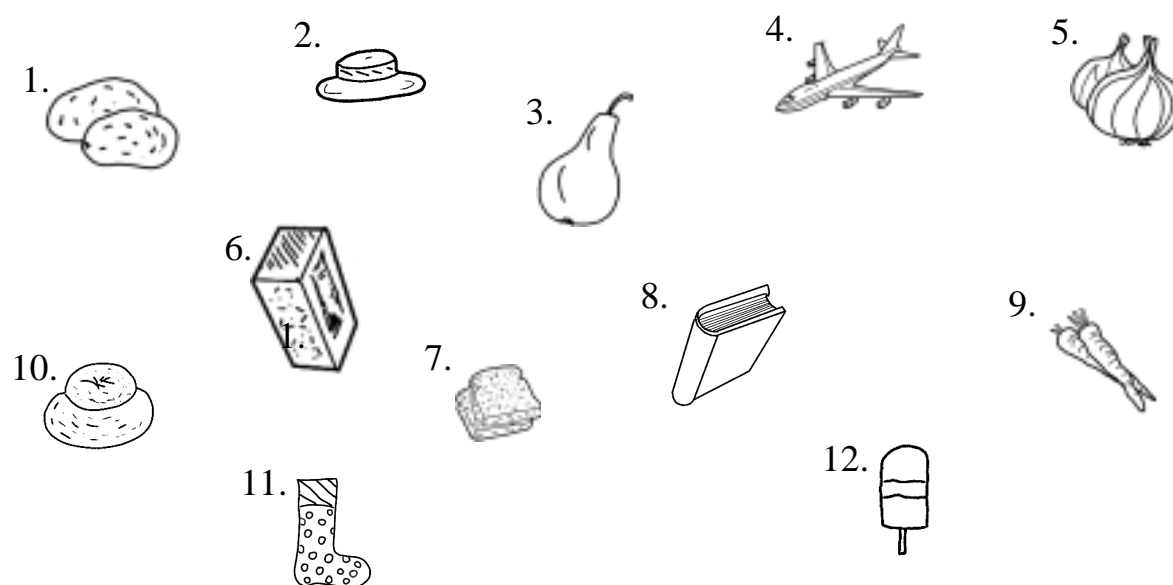


Shapes

Squares

Food or not food?

Put the number next to each picture in the table below:



Food	Not food

Favourite colours

What colour is most popular in your class?

Collect the data - ask 20 children which of these colours is their favourite.

Use a tally to record the votes for each child.

Colour	✓ Number of votes ✓
Red	
Blue	
Green	
Yellow	
Brown	
Purple	

Add up the tally lines and put the totals in the frequency table below.

Colour	Total votes
Red	
Blue	
Green	
Yellow	
Brown	
Purple	

Favourite sports

What sport is most popular in your class?
Collect the data - ask 20 children which of these sports is their favourite.

Use a tally to record the votes for each child.

Sport	✓ Number of votes ✓
Athletics	
Basketball	
Cricket	
Football	
Hockey	
Rugby	
Other	

Add up the tally lines and put the totals in the frequency table below.

Colour	Total votes
Athletics	
Basketball	
Cricket	
Football	
Hockey	
Rugby	
Other	

Favourite drinks

What drink is most popular in your class?
Collect the data - ask 20 children which of these drinks is their favourite.

Use a tally to record the votes for each child.

Drink	✓ Number of votes ✓
Coke	
Lemonade	
Milkshake	
Orange juice	
Squash	
Water	
Other	

Add up the tally lines and put the totals in the frequency table below.

Drink	Total votes
Coke	
Lemonade	
Milkshake	
Orange juice	
Squash	
Water	
Other	

My own question



Right! It's about time you carried out your own survey.
Before starting make sure you have thought about all the questions below.

1. What do I want to find out?
2. How can I find out?
3. What information am I going to collect?
4. How am I going to collect it?
5. How will I show my results?
6. Have I checked with my teacher that I can do it?

Good luck!

Always remember
to make a table of
your results.



Questions to ask



When you have finished presenting your information there are lots of questions you should try to answer. Here are some to start you off!

1. Which is the most popular?
2. Which is the least popular?
3. Would the answers be the same if we asked our parents?
4. How might the table change if everyone had 2 votes?
5. If we asked 100 children would the same one still be the most popular?
6. Who might find this information useful?
7. What problems did you have in getting the information?