



RICH MATHEMATICAL TASK BOOKLET

# STATISTICS

YEAR 0

## Task Copy Masters

*Phase 1: Year 0: Statistics***Task 1**

Sort the shapes into sets that are similar.

What sets have you made?

What is the same?

What is different?

How many is in each set?

Re-sort the shapes into different sets.

What sets have you made?

What is the same?

What is different?

How many is in each set?

*Phase 1: Year 0: Statistics***Task 1 (independent)**

Sort the objects into sets that are similar.

What sets have you made?

What is the same?

What is different?

How many is in each set?

Re-sort the objects into different sets.

What sets have you made?

What is the same?

What is different?

How many is in each set?

*Phase 1: Year 0: Statistics***Task 2**

How can we sort these objects by attributes?

How many objects are in each sorted group?

Which has more?

Record the results.

Re-sort the objects using different attributes.

How many objects are in each sorted group?

Which has more?

Record the results.

*Phase 1: Year 0: Statistics***Task 2 (independent)**

Put all the blue beans in one set.  
Put all the red beans in another set.  
Put all the yellow beans in another set.  
How many beans are in each set?  
Record the results.

Put all the rectangular blocks in one set.  
Put all the round blocks in another set.  
How many blocks are in each set?  
Record the results.

Put all the dinner food in one set.  
Put all the snack food in another set.  
Put all the dessert food in another set.  
How much food is in each set?  
Record the results.

Now choose different attributes to sort the objects.  
What sets have you made?

*Phase 1: Year 0: Statistics*

**Task 3**

Oh dear, Hannah bought some of her collections to school and now they have got all mixed up!

Help Hannah to sort out the different collections for the objects.

What different ways could Hannah sort the collections?

Represent the results.



*Phase 1: Year 0: Statistics*

**Task 4**

These are the types of shoes that one class of children wore to school.



What ways can you sort the shoes?

Represent what you have found.



*Phase 1: Year 0: Statistics***Task 4 (independent)**

Nifo wanted to see how many children had a cat or a dog as a pet.  
This is what he found out:



Complete the table:

Cats	
Dogs	

Draw a representation to show this data.

*Phase 1: Year 0: Statistics***Task 5**

What do the children in this class have for morning tea today?

Sort the food into different sets and record the results.

Represent the results in different ways.

*Phase 1: Year 0: Statistics***Task 5 (independent)**

This is the favourite fruit of children in Room 1.



How many children have each fruit as their favourite?  
 Represent what you have found using two different recordings.

**Task 6**

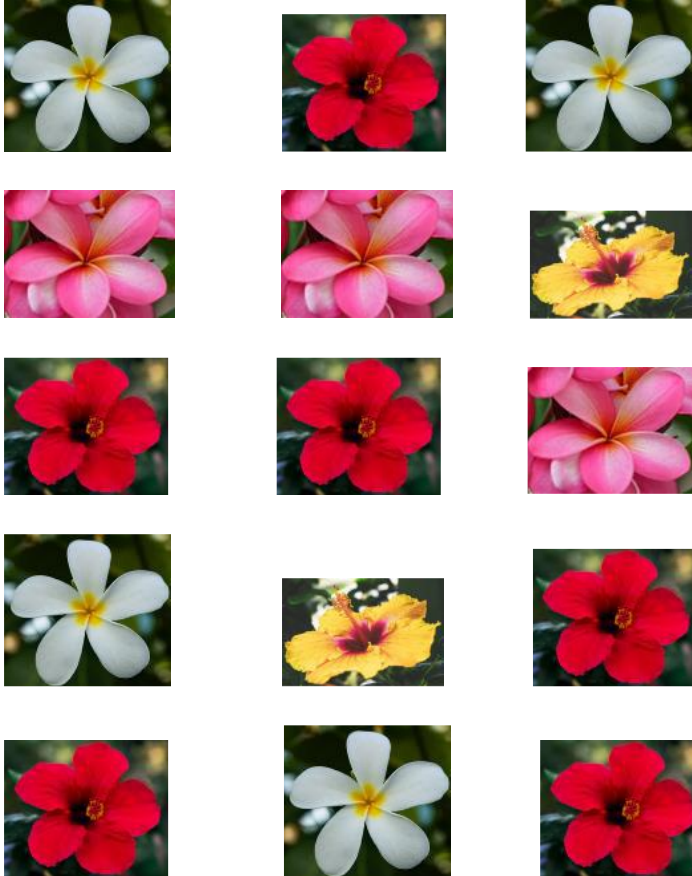
Draw a picture graph that shows the data of the food for morning tea.

Draw another picture graph that only uses one symbol.

What statements make you make about that data?

*Phase 1: Year 0: Statistics***Task 6 (independent)**

Oliana is finding out which tiare members of her dance group like for their 'ei katu. These are the colours they have chosen:



How many children have each flower as their favourite?

Represent what you have found using two different recordings.

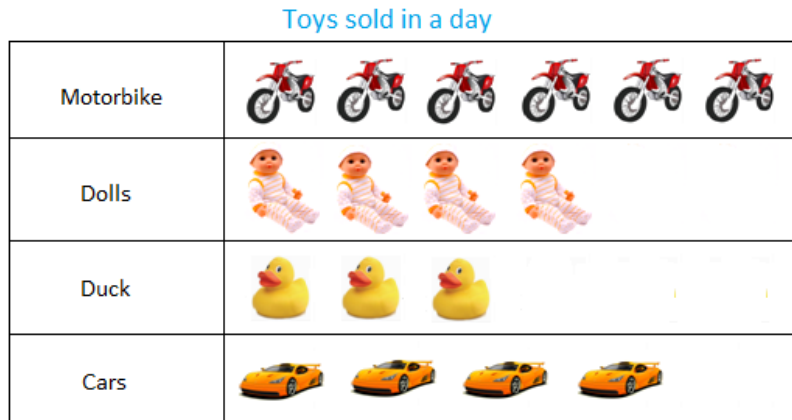
*Phase 1: Year 0: Statistics***Task 7**

In our classroom, how many students have the same favourite activity on the playground?

Represent what you have found.

*Phase 1: Year 0: Statistics***Task 7 (independent)**

The chart below how many different toys were sold from 2Cheap in one day.



Record the data on a table:

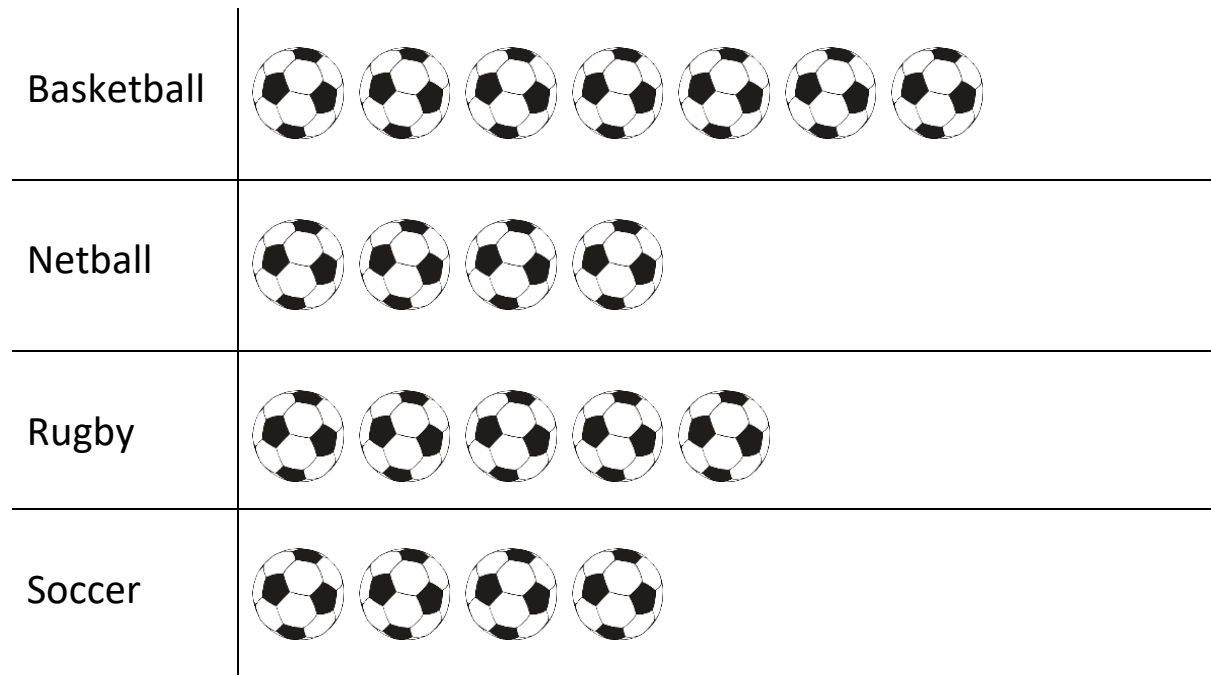
Type of toy	Tally	Number
Motorbike		
Doll		
Duck		
Car		

Make a picture graph of the data.

What statements can you make about the data?

**Task 8**

This graph shows how many children play different ball sports:







Make statements using 'I notice' about the data showing how many children play the different ball sports.

Make statements using 'I wonder' about the data showing how many children play the different ball sports.



*Phase 1: Year 0: Statistics***Task 8 (independent)**

This graph shows the after-school activities during the week of a class of children:

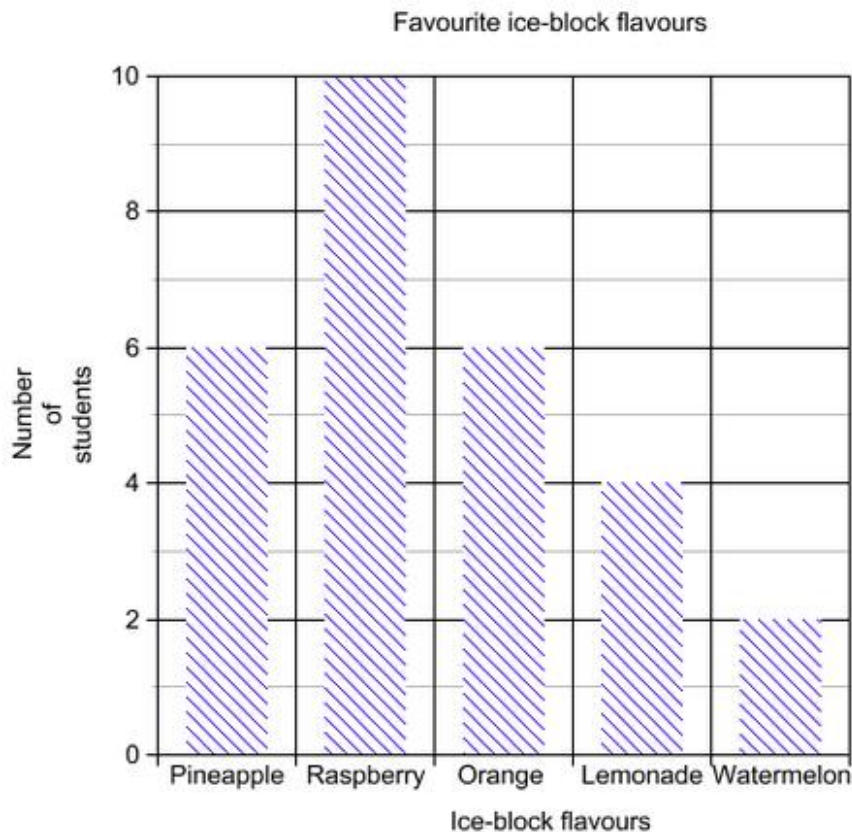
Activity Club	Number of Children
Sports Club	
Drama	
Skidz	
Dance	

Make statements using 'I notice' about the data showing how many children do different after-school activities.

Make statements using 'I wonder' about the data showing how many children do different after-school activities.

## Task 9

Central soccer club wants to buy ice blocks for the players for an end of season treat. They have taken a survey of two teams to find out their favourite flavours.

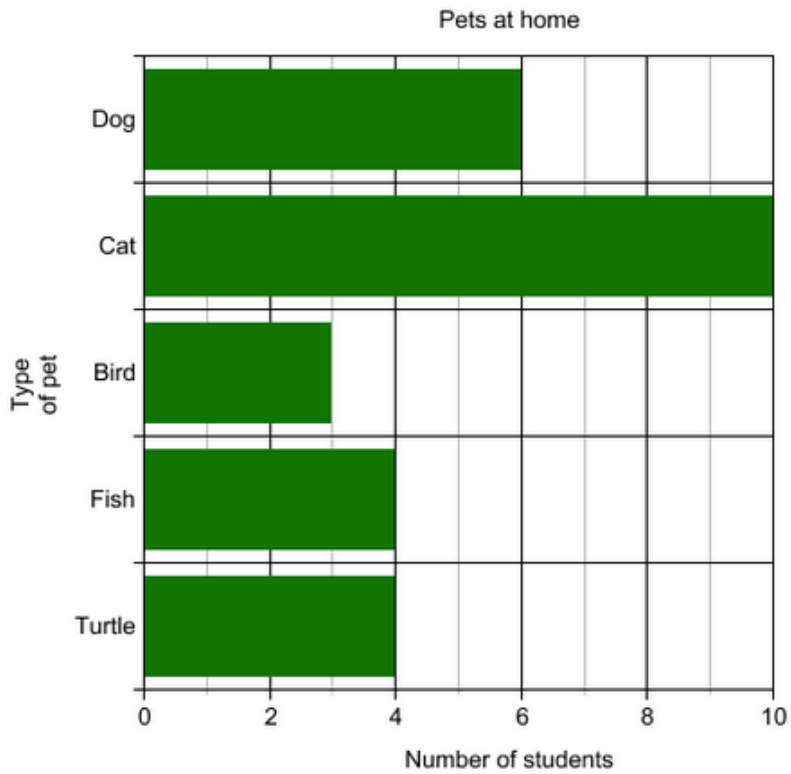


Make statements using 'I notice' about the data showing favourite ice-block flavours.

Make statements using 'I wonder' about the data showing favourite ice-block flavours.

*Phase 1: Year 0: Statistics***Task 9 (independent)**

These are the pets that one class of children have at home:

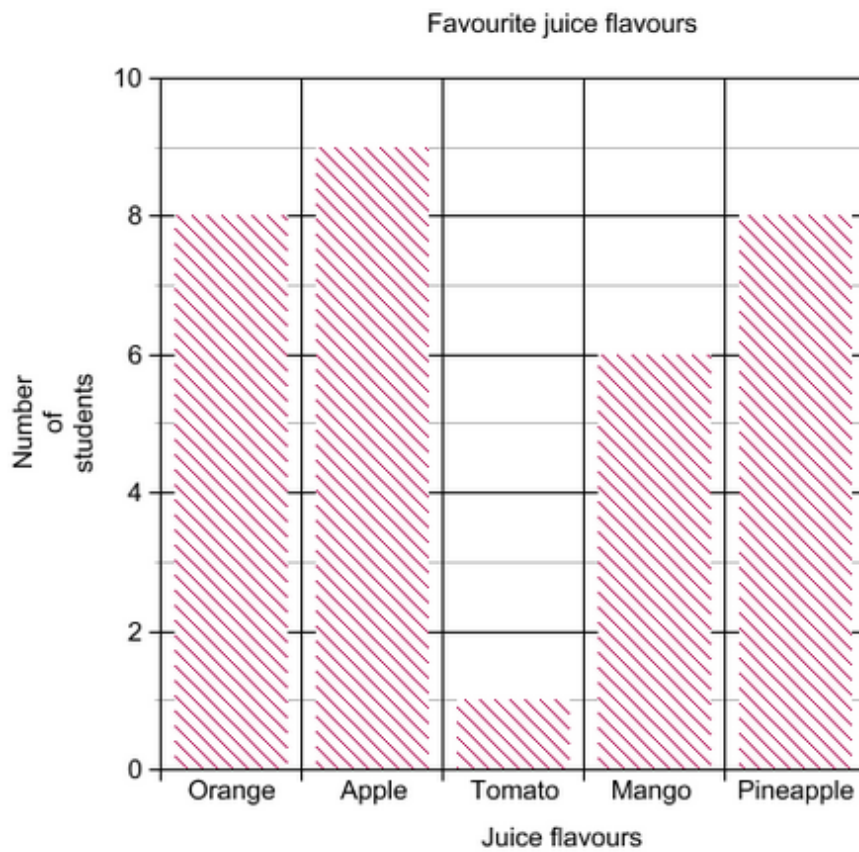


Make “I notice” and “I wonder” statements about the data about pets.

Check the statements that a classmate has made and see whether you agree or disagree and give a reason why.

*Phase 1: Year 0: Statistics***Task 10**

Look at the graph showing favourite juice flavours.



Write a set of 'I notice' and 'I wonder' statements.  
What statements can you make from the graph?