

The Flourish Federation—Knowledge Organiser



Brookfield Infant and Junior Schools

Subject Focus:

Maths

Year 2 - Term 4

Statistics

What? (Key Knowledge)

Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.

Ask and answer simple questions by counting the number of objects and sorting the categories by quantity.

Ask and answer questions about totalling and comparing data.

Read scales in division of ones, twos, fives and tens.

What? (Key Vocabulary)

Vocabulary Comments

Questions about totalling
What is the most popular?
How many people votes for ...?

Questions about comparing
How many more?
How many fewer?

Interpret
Read the graph and understand the in-

Visuals/Diagrams

Complete the tally chart for Year 2 and Year 3

Year Group	Tally	Total
Year 1		10
Year 2		19
Year 3		
Year 4		17

When interpreting and constructing pictograms, ensure to highlight the key.

Children should have to opportunity to unpick pictograms where the picture is worth more than 1.

Complete the pictogram using the data given.

Name	Tally
Teddy	
Annie	
Amir	
Whitney	

			
Teddy	Annie	Amir	Whitney

Key
 = 1 goal

Sport	
Football	    
Tennis	 
Basketball	  
Hockey	   
Swimming	

 = 2 children

5 classes collected their house points.

Here are their results.

Which class collected the most house points?

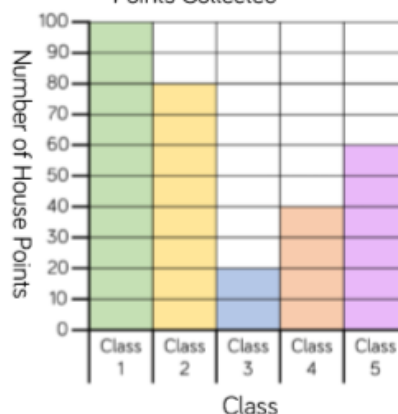
Which class collected the fewest house points?

How many more points did Class 2 get than Class 4?

How many fewer points did Class 3 get than Class 5?

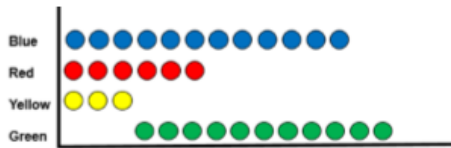
How many points did Class 2 and Class 3 get altogether?

Block graph to show House Points Collected



Examples of Reasoning

Here is a pictogram.



The most popular colour sweet is green.

Do you agree with Eva?

Explain why and correct any mistakes.

Eva is wrong because the green sweets are not lined up correctly. There are 11 green and 12 blue.

It should look like this:



Here are three tables of data. Which set of data could you display using the block graph? Which could use the pictogram? Which could use the tally chart? Explain your reasoning.

Data Set 1

Team	Goals scored
A	20
B	32
C	27
D	16

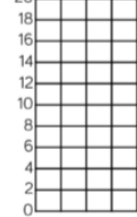
Data Set 2

Player	Points
1	20
2	65
3	80
4	45

Data Set 3

Name	Score
Ron	20
Eva	12
Amir	6
Mo	16

Block diagram



Pictogram



Tally Chart



Data Set 3 would best suit the block diagram because the numbers are all under 20

Data Set 2 would best suit the pictogram because the numbers are larger but all multiples of 5 or 10

Data Set 3 would best suit the tally chart because some numbers are larger than 20 but not all multiples of 5 or 10

Examples of Problem Solving

Use the clues below to help you complete the pictogram.

- More Caramel was sold than Bubblegum flavour, but less than Strawberry flavour.
- Mint was the most popular flavour.
- Vanilla was the least popular.

Flavour	1 ice cream	Total
Strawberry		
Vanilla		
Chocolate		
Mint		
Caramel		
Bubblegum		4

Can you find more than one way to complete the pictogram?

Various answers, e.g.

Strawberry - 8
Vanilla - 1
Chocolate - 4
Mint - 9
Caramel - 6
Bubblegum - 4

Split into groups.

Everyone needs to write their name on a sticky note.

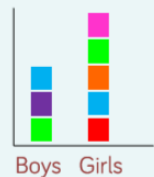
Use your sticky notes to create a block diagram to answer each question.

- How many boys and how many girls are there in your group?
- Which month has the most birthdays for your group?
- What is your favourite sport?

What other information about your group could you show?



Possible examples:



ICT Opportunities

Purple Mash:

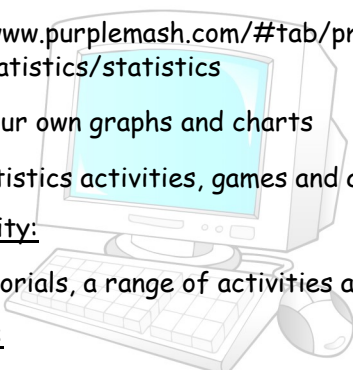
- <https://www.purplemash.com/#tab/pm-home/maths/statistics/statistics>
- Create your own graphs and charts
- Many statistics activities, games and questions

Education City:

- Videos, tutorials, a range of activities and games

Manga High:

- A wealth of games, activities and competitions



Daily Maths

- Questioning during the register (How many people are absent? How many children are here? How many more children have school dinners than packed lunch).
- Lining up games - counting on/back, 2x, 5x and 10x table games
- Days of the week/months of the year

