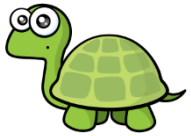
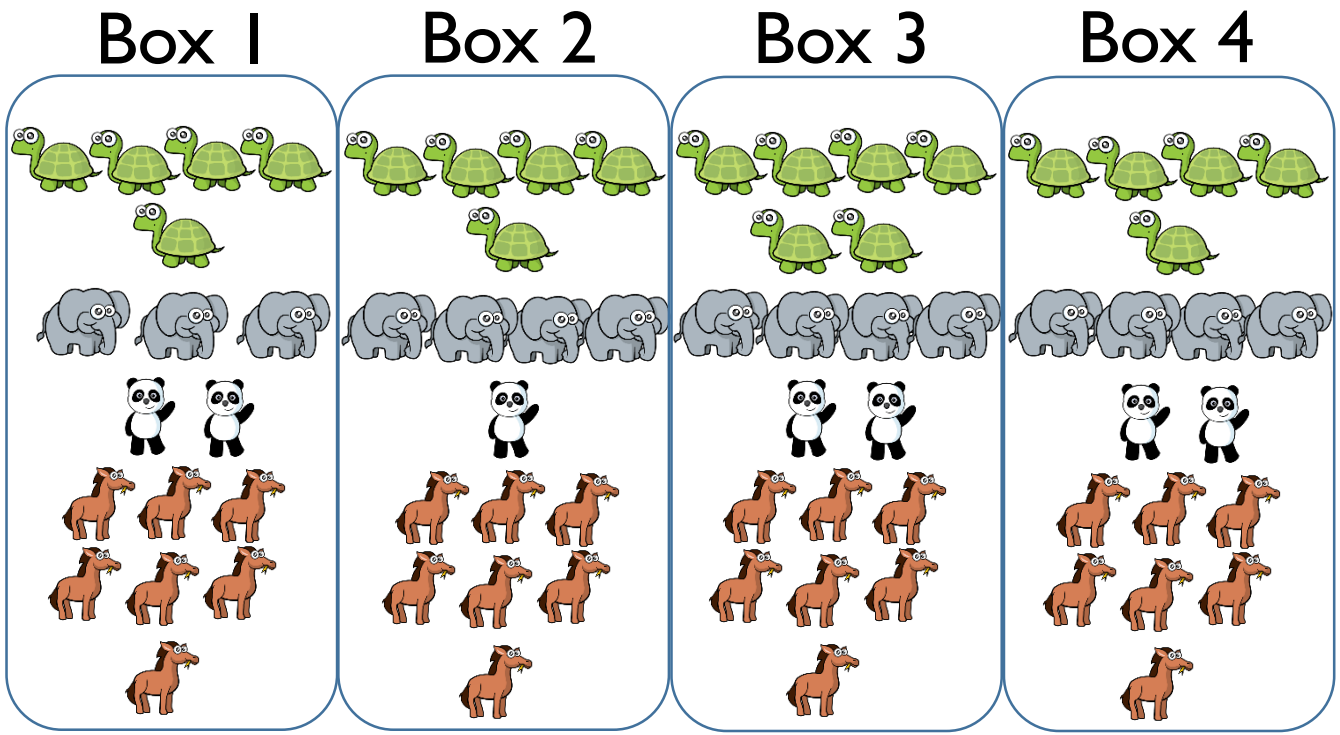
White Rose Maths

Year 2

Statistics

Dexter makes a tally chart of the animals he saw at the zoo.

Animal	Tally
	𝍸
	𝍸 |
	||
	𝍸 ||



Which box shows all of the animals Dexter saw?
Explain why the others are incorrect.

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Class 1 and Class 2 were each asked their favourite ice-cream flavours.

Their results are shown in the tally charts.

Class 1	
Flavour	Total
Vanilla	𝍸 𝍸 𝍸
Chocolate	𝍸 𝍸 𝍸 𝍸
Strawberry	𝍸 ||
Mint	|

Class 2	
Flavour	Total
Vanilla	𝍸 𝍸 ||
Chocolate	𝍸 𝍸 𝍸 𝍸
Strawberry	𝍸
Mint	|||

What is the same? What is different?

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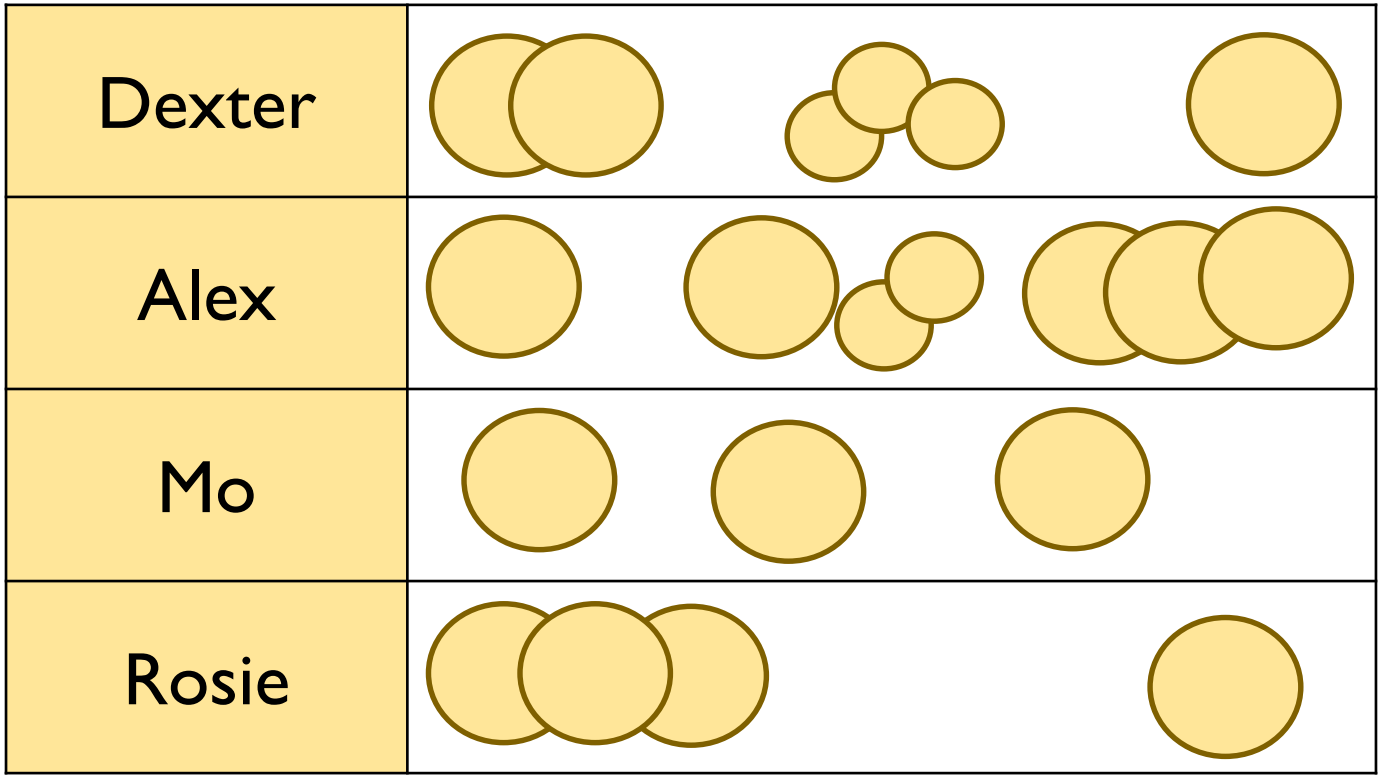
Here is a pictogram showing the number of counters each child has.



How could you improve the pictogram?

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Use the clues 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?

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Teddy writes these statements about his pictogram:

- There were more cows than sheep.
- There were the same number of sheep and horses.
- There were more chickens than any other animal.
- There were less cows than goats.
- There were 8 goats.

Can you draw a pictogram so that Teddy's statements are correct?
What title would you give it?

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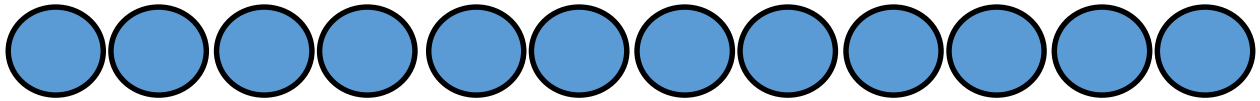
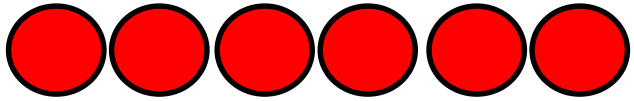
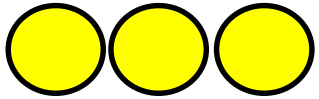
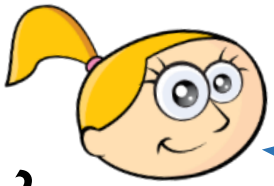
Here is a pictogram.

Blue	
Red	
Yellow	
Green	



The most popular colour sweet is green.

Do you agree with Eva?

Explain why and correct any mistakes

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Create a pictogram to show who was born in what season in your class.

Use what you know about pictograms to help you.

Here is an example.

			
Spring	Summer	Autumn	Winter

Key

= 2 children

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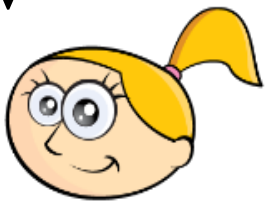
Teddy and Eva both draw a pictogram to show how many cars they counted driving past their school.

Teddy



Eva

Colour	Number of cars
Blue	
Red	
Silver	
Black	
Green	

= 10 cars

What is the same? What is different?

Whose pictogram do you prefer? Why?

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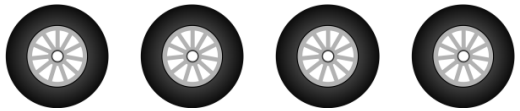
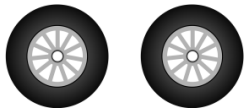
Jack and Whitney have carried out a traffic survey.

Van	
Bus	
Bike	
Lorry	
Car	

 = 10 vehicles

To find the total number of vehicles I need to count the symbols. There are 16 and a half vehicles.

Jack

Whitney

If I add the number of lorries and bikes together then it will be equal to the number of cars

Who is right? Convince me.

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Justify

If the staff needed to pick one day to have off during the week, which would be the best day and why?

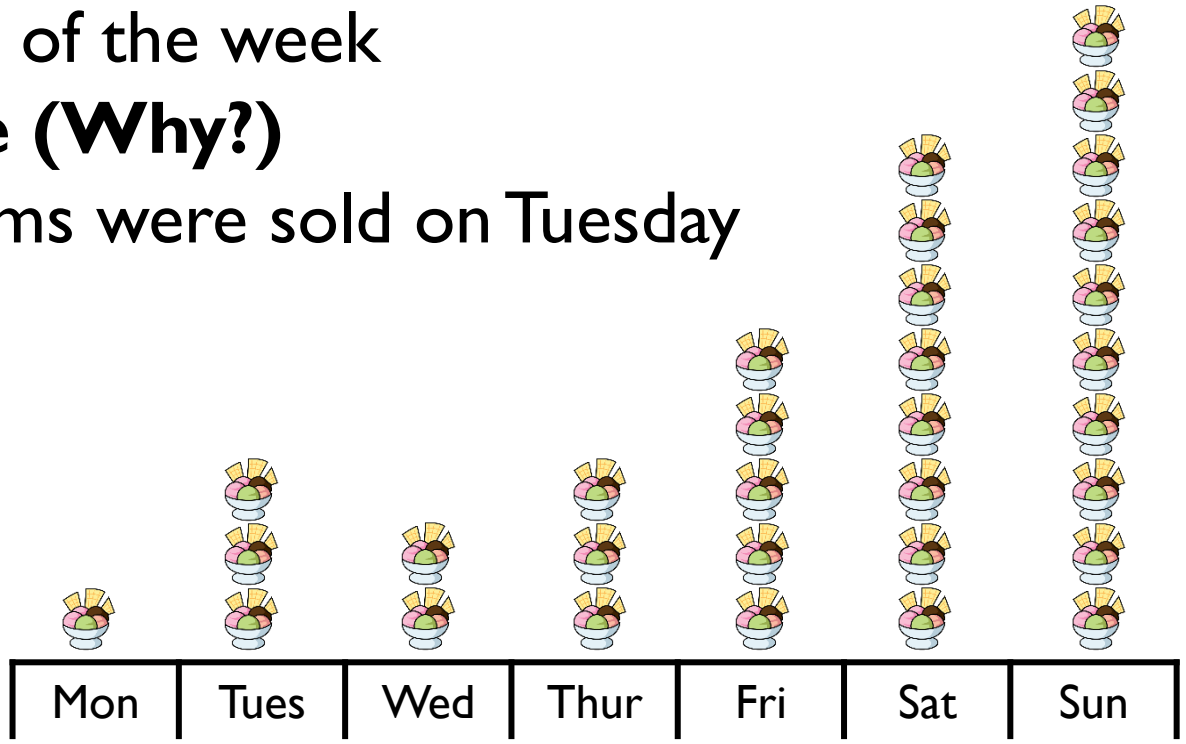
Convince me

There are more ice-creams sold at the weekend than during the rest of the week

True or False (Why?)

Three ice creams were sold on Tuesday

 = 2 ice creams



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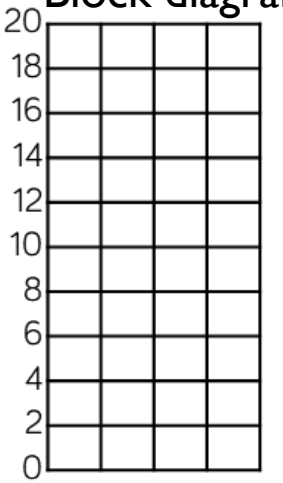
Here are three tables of data.

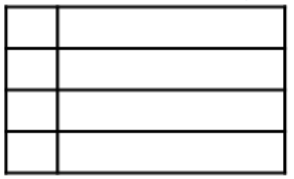
Which set of data could you display using the block graph?
Which could use the pictogram?
Which could use the tally chart?

Explain your reasoning.

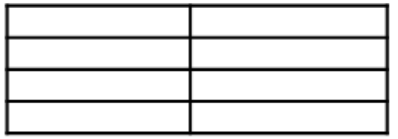
Block diagram



Pictogram = 10



Tally chart



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

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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?

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