

Lesson 5 – Statistics – Interpret Pictograms (1:1)

NC Objective:
Interpret and construct simple pictograms, tally charts, block diagrams and simple tables

Resources needed:
Differentiated Sheets
Teaching Slides

Vocabulary: Statistics, interpret, pictograms, data, compare

Children use their knowledge of one-to-one correspondence to help them interpret and answer questions about the data presented in pictograms. It is important that children are able to compare data within the pictograms

Key Questions:

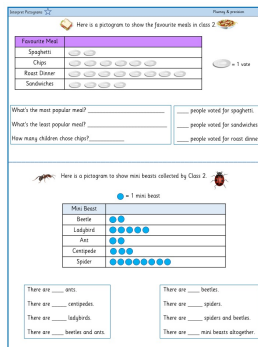
What is the pictogram showing us?

What can you find out from this pictogram?

Can you think of your own questions to ask a partner?



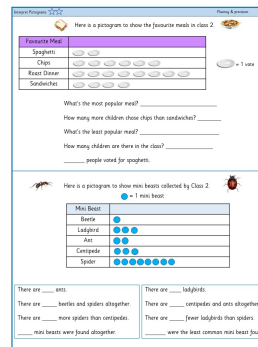
Working Towards



Children this sheet, children are given simple retrieval questions.



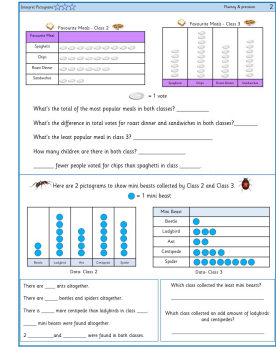
Working Within



On this sheet, children answer a range of questions.

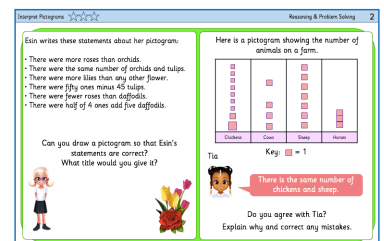
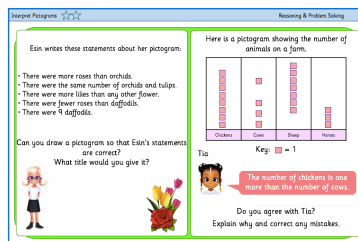
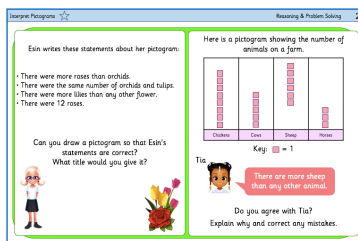


Greater Depth



On this sheet, children compare two pictograms and answer more complex questions.

Reasoning & Problem Solving

























Mon 25th
Maths



Here is a pictogram to show the favourite meals in class 2.



Favourite Meal	
Spaghetti	 
Chips	     
Roast Dinner	       
Sandwiches	   



= 1 vote

What's the most popular meal? _____

_____ people voted for spaghetti.

What's the least popular meal? _____

_____ people voted for sandwiches.


How many children chose chips? _____





















_____ people voted for roast dinner.



Here is a pictogram to show mini beasts collected by Class 2.



 = 1 mini beast

Mini Beast	
Beetle	 
Ladybird	    
Ant	 
Centipede	  
Spider	       

There are _____ ants.

There are _____ centipedes.

There are _____ ladybirds.

There are _____ beetles and ants.

There are _____ beetles.

There are _____ spiders.





















There are _____ spiders and beetles.

There are _____ mini beasts altogether.



Here is a pictogram to show the favourite meals in class 2.



Favourite Meal	
Spaghetti	 
Chips	     
Roast Dinner	       
Sandwiches	   



= 1 vote

What's the most popular meal? Roast dinner

2 people voted for spaghetti.

What's the least popular meal? Spaghetti

4 people voted for sandwiches.


How many children chose chips? 6





















8 people voted for roast dinner.



Here is a pictogram to show mini beasts collected by Class 2.



 = 1 mini beast

Mini Beast	
Beetle	 
Ladybird	    
Ant	 
Centipede	  
Spider	       

There are 2 ants.

There are 3 centipedes.

There are 5 ladybirds.

There are 4 beetles and ants.

There are 2 beetles.

There are 8 spiders.

There are 10 spiders and beetles.

There are 20 mini beasts altogether.























**Mon 25th
Maths**



Here is a pictogram to show the favourite meals in class 2.



Favourite Meal	
Spaghetti	 
Chips	     
Roast Dinner	       
Sandwiches	   



= 1 vote

What's the most popular meal? _____

How many more children chose chips than sandwiches? _____

What's the least popular meal? _____

How many children are there in the class? _____


















_____ people voted for spaghetti.



Here is a pictogram to show mini beasts collected by Class 2.



 = 1 mini beast

Mini Beast	
Beetle	
Ladybird	  
Ant	 
Centipede	  
Spider	       

There are ____ ants.

There are ____ beetles and spiders altogether.

There are ____ more spiders than centipedes.

____ mini beasts were found altogether.

There are ____ ladybirds.

There are ____ centipedes and ants altogether.





















There are ____ fewer ladybirds than spiders.

____ were the least common mini beast found.



Here is a pictogram to show the favourite meals in class 2.



Favourite Meal	
Spaghetti	 
Chips	     
Roast Dinner	       
Sandwiches	   



= 1 vote

What's the most popular meal? Roast dinner

How many more children chose chips than sandwiches? 2

What's the least popular meal? Spaghetti


How many children are there in the class? 20


















2 people voted for spaghetti.



Here is a pictogram to show mini beasts collected by Class 2.



 = 1 mini beast

Mini Beast	
Beetle	
Ladybird	  
Ant	 
Centipede	  
Spider	       

There are 2 ants.

There are 9 beetles and spiders altogether.

There are 5 more spiders than centipedes.

17 mini beasts were found altogether.

There are 3 ladybirds.

There are 5 centipedes and ants altogether.
























There are 5 fewer ladybirds than spiders.

Beetles were the least common mini beast found.



Favourite Meals - Class 2





























Favourite Meal	
Spaghetti	       
Chips	      
Roast Dinner	    
Sandwiches	  



Favourite Meals - Class 3



    	       	     	      
Spaghetti	Chips	Roast Dinner	Sandwiches



= 1 vote

What's the total of the most popular meals in both classes? _____

What's the difference in total votes for roast dinner and sandwiches in both classes? _____

What's the least popular meal in class 3? _____

How many children are there in both class? _____



























_____ fewer people voted for chips than spaghetti in class _____.





















Here are 2 pictograms to show mini beasts collected by Class 2 and Class 3.



= 1 mini beast

 	      	    	      	    
Beetle	Ladybird	Ant	Centipede	Spider

Data- Class 2

Mini Beast	
Beetle	
Ladybird	  
Ant	 
Centipede	   
Spider	       

Data- Class 3

There are ____ ants altogether.

There are ____ beetles and spiders altogether.

There is ____ more centipede than ladybirds in class ____.

____ mini beasts were found altogether.

2 _____ and _____ were found in both classes.























Which class collected the least mini beasts?

Which class collected an odd amount of ladybirds and centipedes?



Favourite Meals - Class 2





























Favourite Meal	
Spaghetti	       
Chips	     
Roast Dinner	    
Sandwiches	  



Favourite Meals - Class 3



    	       	     	      
Spaghetti	Chips	Roast Dinner	Sandwiches




























= 1 vote

What's the total of the most popular meals in both classes? 19What's the difference in total votes for roast dinner and sandwiches in both classes? 6What's the least popular meal in class 3? SpaghettiHow many children are there in both class? 562 fewer people voted for chips than spaghetti in class 2.



















Here are 2 pictograms to show mini beasts collected by Class 2 and Class 3.



= 1 mini beast

 	      	   	      	    
Beetle	Ladybird	Ant	Centipede	Spider

Data- Class 2

Mini Beast	
Beetle	
Ladybird	  
Ant	 
Centipede	   
Spider	       

Data- Class 3

There are 6 ants altogether.There are 16 beetles and spiders altogether.There is 1 more centipede than ladybirds in class 3.41 mini beasts were found altogether.2 beetles and ants were found in both classes.

Which class collected the least mini beasts?

Class 3

Which class collected an odd amount of ladybirds and centipedes?

Class 3



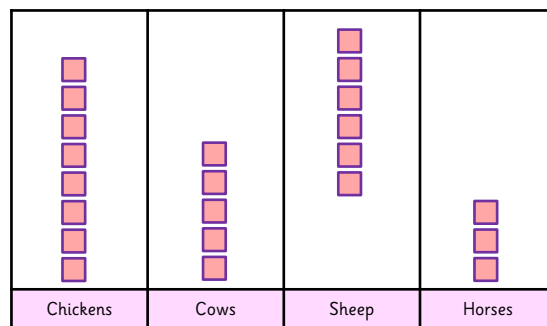
Esin writes these statements about her pictogram:

- There were more roses than orchids.
- There were the same number of orchids and tulips.
- There were more lilies than any other flower.
- There were 12 roses.

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



Here is a pictogram showing the number of animals on a farm.



Key:  = 1

Tia



There are more sheep than any other animal.

Do you agree with Tia?

Explain why and correct any mistakes.



Esin writes these statements about her pictogram:

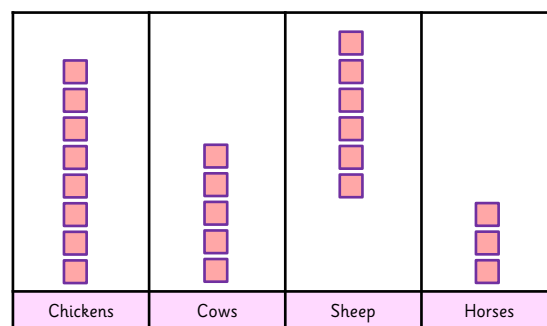
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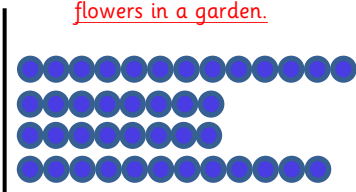
What title would you give it?

Children may have different numbers from this and still be correct.

Pictogram to show the number of flowers in a garden.



Lilies
Tulips
Orchids
Roses

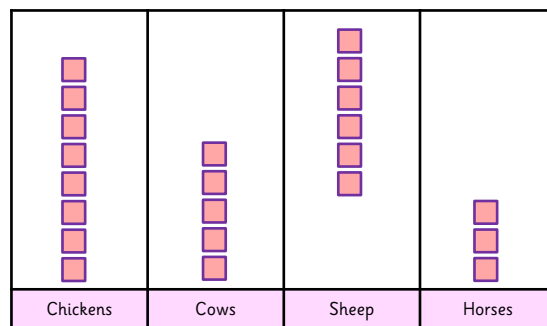


Key: ● = 1 flower



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Here is a pictogram showing the number of animals on a farm.



Key: □ = 1

Tia



There are more sheep than any other animal.

Do you agree with Tia?

Explain why and correct any mistakes.

Tia is wrong because the number of sheep is not lined up correctly. There are 6 sheep and 8 chickens.



Esin writes these statements about her pictogram:

- There were more roses than orchids.
- There were the same number of orchids and tulips.
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- There were 12 roses.

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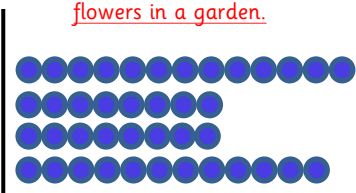
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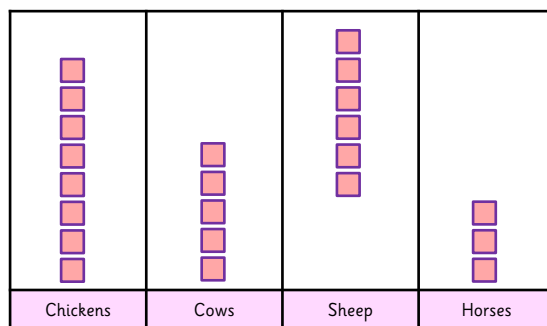


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- There were more roses than orchids.
- There were the same number of orchids and tulips.
- There were more lilies than any other flower.
- There were fewer roses than daffodils.
- There were 9 daffodils.

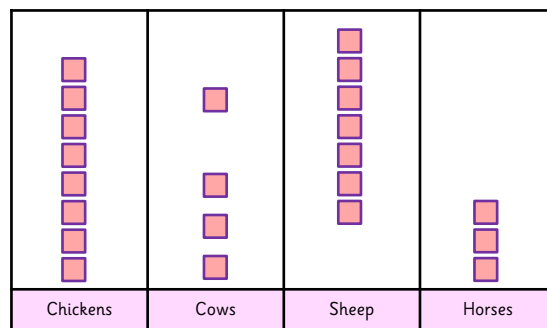
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Here is a pictogram showing the number of animals on a farm.



Key:  = 1

Tia



The number of chickens is one more than the number of cows.

Do you agree with Tia?

Explain why and correct any mistakes.



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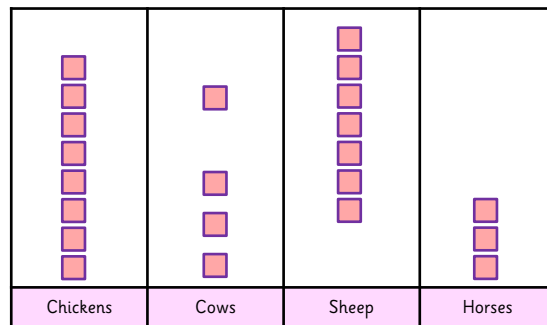
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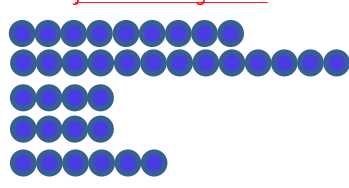
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Daffodils
Lilies
Tulips
Orchids
Roses

Pictogram to show the number of flowers in a garden.

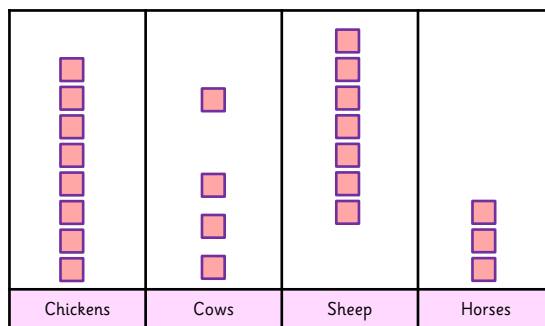


Key: ● = 1 flower



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Tia

Key: ■ = 1



The number of chickens is one more than the number of cows.

Do you agree with Tia?

Explain why and correct any mistakes.

Tia is wrong because the number of sheep is not lined up correctly. Also, the number of cows is not spaced like the rest. There are 7 sheep, 4 cows and 8 chickens.



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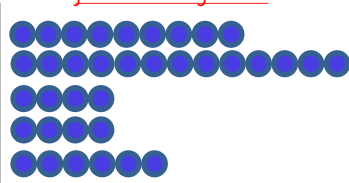
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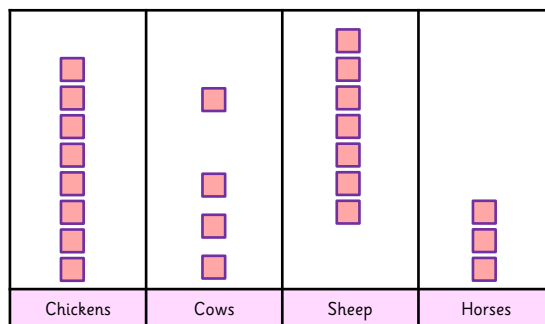


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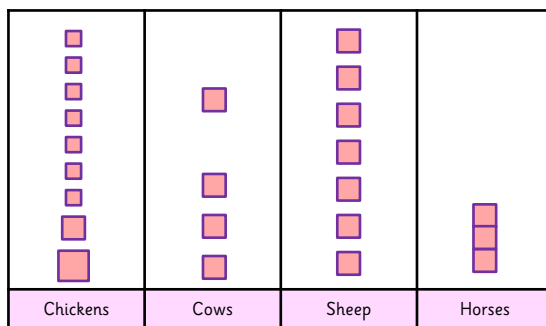
- There were more roses than orchids.
- There were the same number of orchids and tulips.
- There were more lilies than any other flower.
- There were fifty ones minus 45 tulips.
- There were fewer roses than daffodils.
- There were half of 4 ones add five daffodils.

Can you draw a pictogram so that Esin's statements are correct?

What title would you give it?



Here is a pictogram showing the number of animals on a farm.



Key: = 1

Tia



There is the same number of chickens and sheep.

Do you agree with Tia?

Explain why and correct any mistakes.



Esin writes these statements about her pictogram:

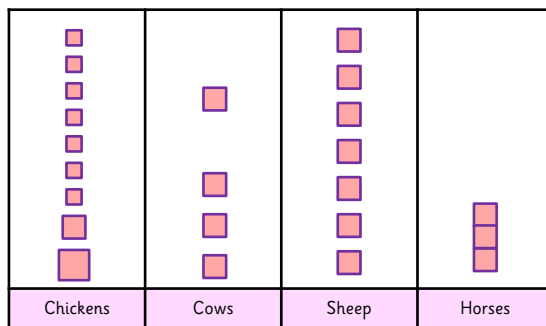
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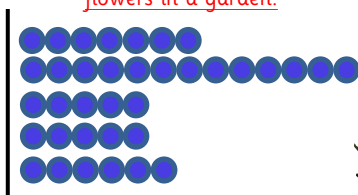
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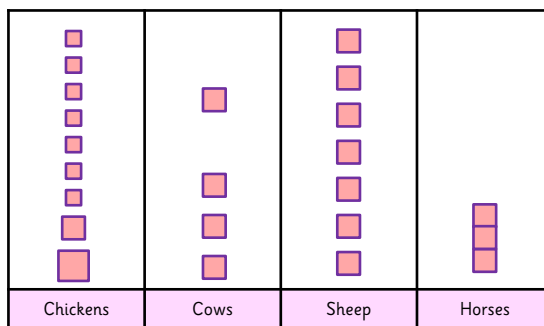


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Key: ■ = 1



There is the same number of chickens and sheep.

Do you agree with Tia?

Explain why and correct any mistakes.

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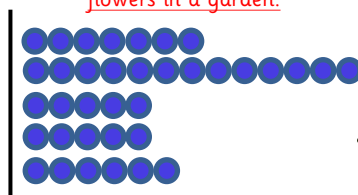
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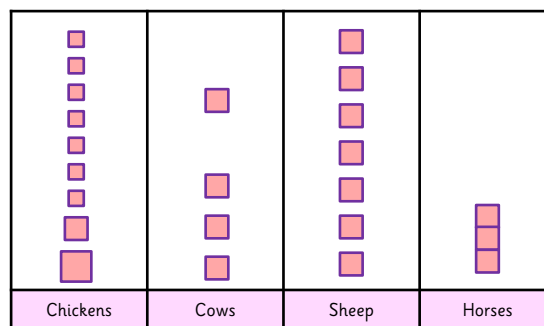


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