

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

★★ Working Within

★★★ Greater Depth

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

Favourite Meal	Number of Children
Spaghetti	10
Chips	8
Rice & Curry	6
Sandwiches	4

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 rice & curry.

Here is a pictogram to show minibeasts collected by Class 2.

Minibeast	Number of Minibeasts
Beetle	10
Ladybird	8
Ant	6
Caterpillar	4
Spider	2

There are _____ ants.
 There are _____ beetles.
 There are _____ ladybirds.
 There are _____ caterpillars and spiders.
 There are _____ minibeasts altogether.

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

Favourite Meal	Number of Children
Spaghetti	10
Chips	8
Rice & Curry	6
Sandwiches	4

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 minibeasts collected by Class 2.

Minibeast	Number of Minibeasts
Beetle	10
Ladybird	8
Ant	6
Caterpillar	4
Spider	2

There are _____ with _____ ladybirds.
 There are _____ beetles and spiders altogether. There are _____ caterpillars and ants altogether.
 There are _____ more spiders than caterpillars. There are _____ fewer ladybirds than spiders.
 _____ minibeasts were found altogether. _____ were the least common minibeast found.

Interpret Pictogram 2: Here are 2 pictograms to show minibeasts collected by Class 2 and Class 3.

Minibeast	Class 2	Class 3
Beetle	10	8
Ladybird	8	6
Ant	6	4
Caterpillar	4	2
Spider	2	1

What's the total of the most popular meals in both classes? _____
 What's the difference in total votes for rice & curry and sandwiches in both classes? _____
 What's the least popular meal in class 3? _____
 How many children are there in both classes? _____
 _____ fewer people voted for chips than spaghetti in class _____.

Which class collected the most minibeasts?
 There are _____ minibeasts and spiders altogether. There are _____ caterpillars and ants altogether.
 There are _____ more beetles than ladybirds in class _____.
 _____ minibeasts were found altogether. _____ were the least common minibeast found.

Children this sheet, children are given simple retrieval questions.

On this sheet, children answer a range of questions.

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

Reasoning & Problem Solving

Interpret Pictogram 2: Reasoning & Problem Solving

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?

Tia: Key: 1 = 1 flower

There are more sheep than any other animal.

Do you agree with Tia? Explain why and correct any mistakes.

Interpret Pictogram 2: Reasoning & Problem Solving

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 fewer roses than daffodils.
- There were 4 daffodils.

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

Tia: Key: 1 = 1 flower

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

Do you agree with Tia? Explain why and correct any mistakes.

Interpret Pictogram 2: Reasoning & Problem Solving

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 10 roses minus 40 tulips.
- There were fewer roses than daffodils.
- There were half of 4 ones and five daffodils.

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

Tia: Key: 1 = 1 flower

There is the same number of chickens and sheep.

Do you agree with Tia? Explain why and correct any mistakes.



**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 voteWhat's the most popular meal? Roast dinner2 people voted for spaghetti.What's the least popular meal? Spaghetti4 people voted for sandwiches.How many children chose chips? 68 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? 19

What's the difference in total votes for roast dinner and sandwiches in both classes? 6

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

How many children are there in both class? 56

2 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:

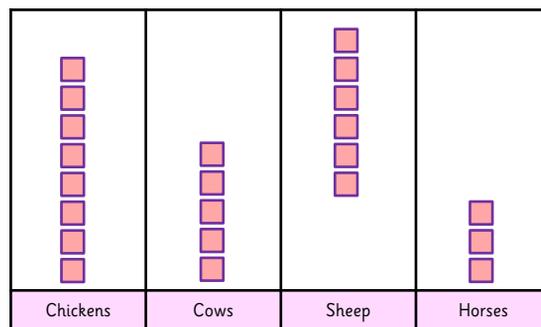
- There were more roses than orchids.
- There were the same number of orchids and tulips.
- There were more lilies than any other flower.
- There were 12 roses.

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



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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.



Esin writes these statements about her pictogram:

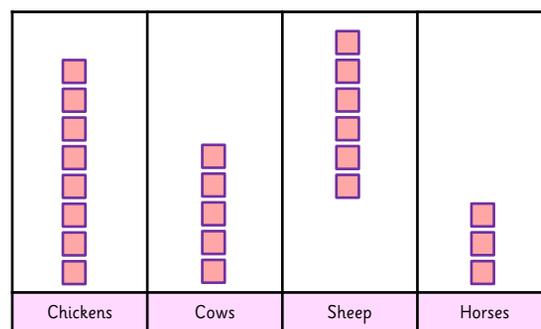
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- There were 12 roses.

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

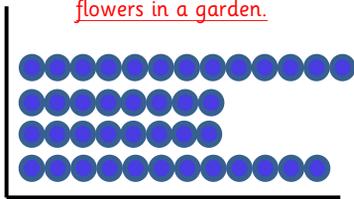
What title would you give it?

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

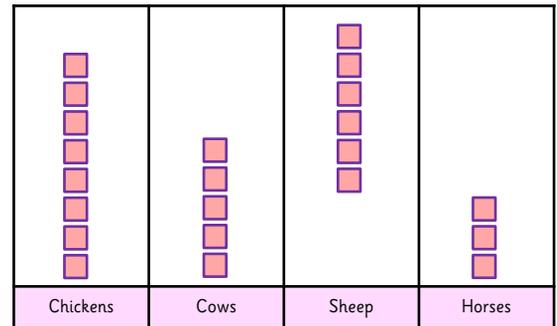


Key: ● = 1 flower



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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.
- There were more lilies than any other flower.
- There were 12 roses.

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

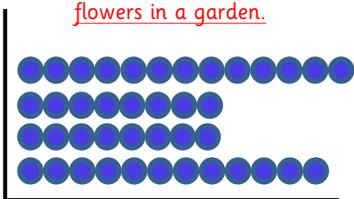
What title would you give it?

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Pictogram to show the number of flowers in a garden.



Lilies
Tulips
Orchids
Roses

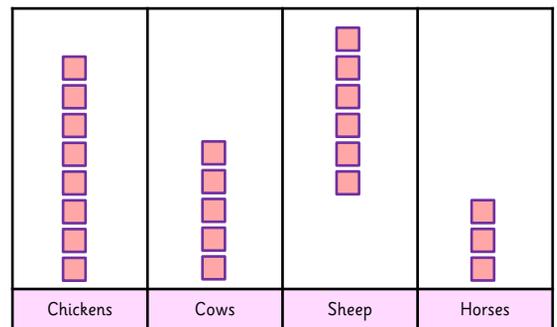


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Esin writes these statements about her pictogram:

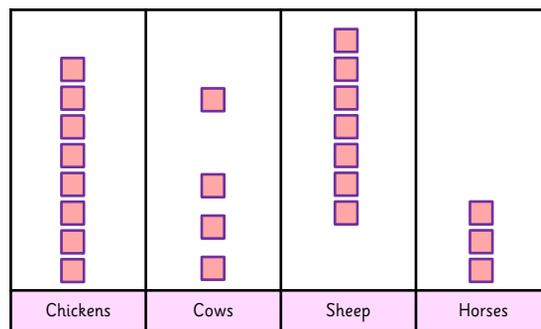
- There were more roses than orchids.
- There were the same number of orchids and tulips.
- There were more lilies than any other flower.
- There were fewer roses than daffodils.
- There were 9 daffodils.

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



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

Do you agree with Tia?

Explain why and correct any mistakes.



Esin writes these statements about her pictogram:

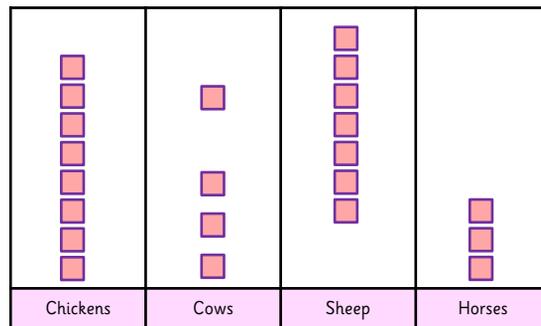
- There were more roses than orchids.
- There were the same number of orchids and tulips.
- There were more lilies than any other flower.
- There were fewer roses than daffodils.
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- There were 9 daffodils.

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

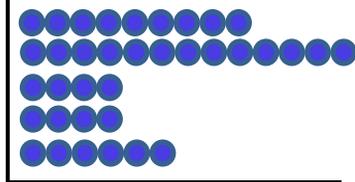
What title would you give it?

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

Pictogram to show the number of flowers in a garden.



Daffodils
Lilies
Tulips
Orchids
Roses

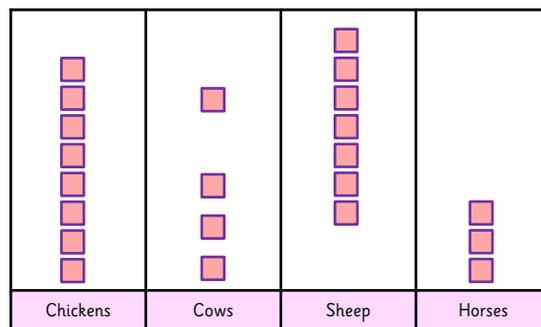


Key: ● = 1 flower



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



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.



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 fewer roses than daffodils.
- There were 9 daffodils.

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

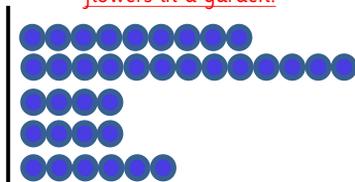
What title would you give it?

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Pictogram to show the number of flowers in a garden.



Daffodils
Lilies
Tulips
Orchids
Roses

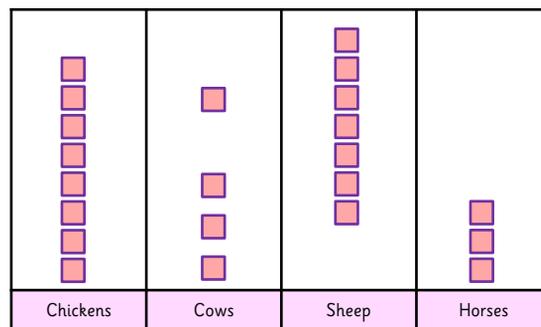


Key: ● = 1 flower



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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.



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 fifty ones minus 45 tulips.
- There were fewer roses than daffodils.
- There were half of 4 ones add five daffodils.

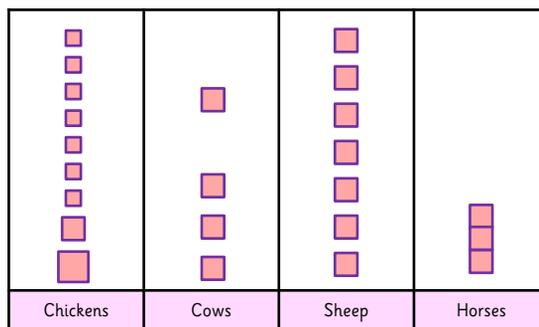
Can you draw a pictogram so that Esin's statements are correct?

What title would you give it?



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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:

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

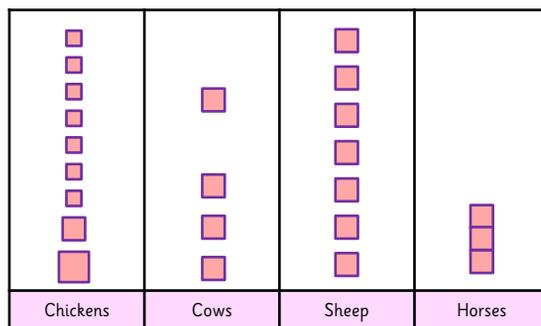
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What title would you give it?



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- There were half of 4 ones add five daffodils.

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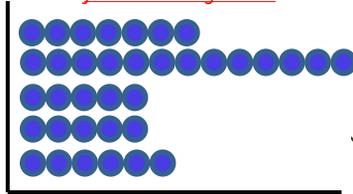
What title would you give it?

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

Pictogram to show the number of flowers in a garden.



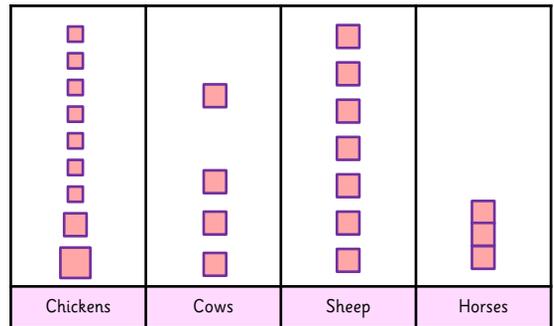
Daffodils
Lilies
Tulips
Orchids
Roses



Key: ● = 1 flower



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



Tia

Key: □ = 1



There is the same number of chickens and sheep.

Do you agree with Tia?

Explain why and correct any mistakes.

Tia is wrong because the number of cows are not lined up correctly. Also, all symbols need to be evenly spaced and the same size. There are 9 chickens, 4 cows, 7 sheep and 3 horses.



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 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?

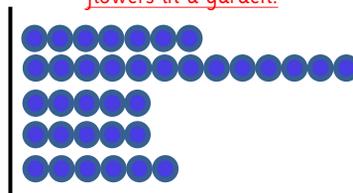
What title would you give it?

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

Pictogram to show the number of flowers in a garden.



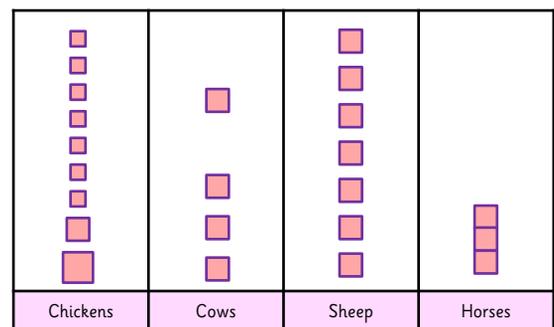
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Lilies
Tulips
Orchids
Roses



Key: ● = 1 flower



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