

Lesson 1(R) – Statistics - Make Tally Charts

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

Resources needed:
Differentiated Sheets
Teaching Slides

Vocabulary:
Statistics, chart, recording, counting, total, altogether, more, less, difference, tally, groups

Children are introduced to tally charts as a systematic method of recording data. They should already be able to count in 5s and understand the vocabulary of total, altogether, more, less and difference.

Key Questions:

- What do you notice about the groups?
- How would we count these?
- How would you show 6, 11, 18 as a tally?
- Why do we draw tallies like this?
- When do we use tallies?

★ Working Towards

★★ Working Within

★★★ Greater Depth

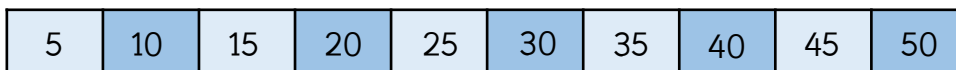
On this sheet, children have a number line to help them count in 5s and have an opportunity to practise tallies before filling in missing parts from the tally.

On this sheet, children explain what the data is telling them.

On this sheet, children use their problem solving skills to work out what the hidden numbers could be from a series of clues.

Reasoning & Problem Solving

Use the number track to help you count the tallies.



Complete the tally chart.

Favourite Colour	Tally	Total
Green		
Orange		
Red		
Blue		
Yellow		

Practise writing the numbers as a tally.

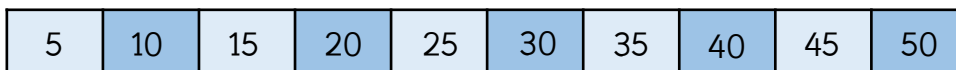
Number	Tally
10	
5	
20	

Number	Tally
13	
4	
9	

Complete the tally chart.

Year Group	Tally	Total
Year 1		
Year 2		18

Use the number track to help you count the tallies.



Complete the tally chart.

Favourite Colour	Tally	Total
Green		25
Orange		15
Red		2
Blue		10
Yellow		9

Practise writing the numbers as a tally.

Number	Tally
10	
5	
20	

Number	Tally
13	
4	
9	

Complete the tally chart.

Year Group	Tally	Total
Year 1		13
Year 2		18



Complete the tally chart.

Favourite Colour	Tally	Total
Green		
Orange		
Red		
Blue		
Yellow		

What does the data tell you?

Complete the tally chart for Year 1 and Year 3.

Year Group	Tally	Total
Year 1		
Year 2		23
Year 3		17
Year 4		30

What does the data tell you?



Complete the tally chart.

Favourite Colour	Tally	Total
Green		28
Orange		19
Red		2
Blue		11
Yellow		0

What does the data tell you?

Multiple answers

The data is about colours. Yellow has the least amount.
Green has the most.





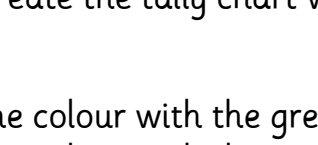
Complete the tally chart for Year 1 and Year 3.

Year Group	Tally	Total
Year 1		29
Year 2		23
Year 3		17
Year 4		30

What does the data tell you?

The data is about year groups. Year 3 has the least amount.
Year 4 has the most.

The tally chart taken has been covered in paint.

Favourite Colour	Tally	Total
Green		
Orange		
Red		
Blue		
Yellow		22

Recreate the tally chart with the information given below.

- The colour with the greatest number is yellow.
- The colour with the second greatest number is red.
- The colour with the least number is blue.
- Orange has more than green but less than red.
- Green has half the amount of yellow.

Favourite Colour	Tally	Total
Green		
Orange		
Red		
Blue		
Yellow		

Is there more than one answer?

Can you recreate another tally chart using the same information but have some different numbers?



The tally chart taken has been covered in paint.

Favourite Colour	Tally	Total
Green		
Orange		
Red		
Blue		
Yellow		22

Recreate the tally chart with the information given below.

- The colour with the greatest number is yellow. **22**
- The colour with the second greatest number is red. **Less than 22 but more than 15**
- The colour with the least number is blue. **10**
- Orange has more than green but less than red. **15**
- Green has half the amount of yellow. **11**





Multiple answers

Favourite Colour	Tally	Total
Green		11
Orange		15
Red		20
Blue		10
Yellow		22

Is there more than one answer?

Can you recreate another tally chart using the same information but have some different numbers?

Leanna makes a tally chart of the animals she saw on her way to school.

Animal				
Tally				

Tick one box below that shows all of the animals Leanna saw and explain why the others are incorrect.

Box 1



Box 2



Box 3







Class 1 and Class 2 were asked their favourite fruit. The results are shown in the tally charts.

What is the same? What is different?

Class 1	
Fruit	Total
Banana	
Apple	
Orange	
Peach	

Class 2	
Fruit	Total
Banana	
Apple	
Orange	
Peach	

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Orange	
Peach	

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Tick one box below that shows all of the animals Leanna saw and explain why the others are incorrect.


Box 1



Box 2



Box 3



Box 1 is incorrect because there are not enough frogs and birds to match the tally chart. Box 3 is incorrect because there are not enough dogs to match the tally chart.

Class 1 and Class 2 were asked their favourite fruit. The results are shown in the tally charts.





What is the same? What is different?

Class 1			Class 2		
Fruit	Total		Fruit	Total	
Banana		13	Banana		12
Apple		9	Apple		11
Orange		10	Orange		10
Peach		8	Peach		7

The same: Both classes have 10 votes for orange. Both tally charts show that banana is the favourite fruit and peach is the least favourite fruit. The number of children in both classes is the same - 40.


Different: In Class 1, one more child likes banana and peach. Two more children chose apple in Class 2.

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What is the same? What is different?





Class 1			Class 2		
Fruit	Total		Fruit	Total	
Banana		13	Banana		12
Apple		9	Apple		11
Orange		10	Orange		10
Peach		8	Peach		7

The same: Both classes have 10 votes for orange. Both tally charts show that banana is the favourite fruit and peach is the least favourite fruit. The number of children in both classes is the same - 40.

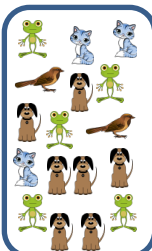

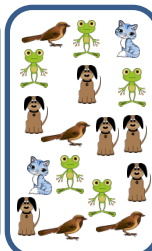

Different: In Class 1, one more child likes banana and peach. Two more children chose apple in Class 2.



Leanna makes a tally chart of the animals she saw on her way to school.

Animal				
Tally				

Tick one box below that shows all of the animals Leanna saw and explain why the others are incorrect.

Box 1  Box 2  Box 3  Box 4 

Class 1 and Class 2 were asked their favourite fruit. The results are shown in the tally charts.

What is the same? What is different?





Class 1	
Fruit	Total
Banana	
Apple	
Orange	
Peach	

Class 2	
Fruit	Total
Banana	
Apple	
Orange	
Peach	


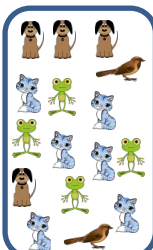


If three children in Class 2 chose banana instead of apple, how would that change the results?



Leanna makes a tally chart of the animals she saw on her way to school.

Animal				
Tally				

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Box 1  Box 2  Box 3  Box 4 

Class 1 and Class 2 were asked their favourite fruit. The results are shown in the tally charts.

What is the same? What is different?

Class 1	
Fruit	Total
Banana	
Apple	
Orange	
Peach	

Class 2	
Fruit	Total
Banana	
Apple	
Orange	
Peach	

If three children in Class 2 chose banana instead of apple, how would that change the results?



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Animal				
Tally				

Tick one box below that shows all of the animals Leanna saw and explain why the others are incorrect.

Box 1

Box 2

Box 3

Box 4

Box 1 is incorrect because there are not enough birds and there are too many cats and dogs to match the tally chart.
 Box 2 is incorrect because the number of each animal doesn't match the graph. Box 4 is incorrect because there are too many frogs to match the chart.

Class 1 and Class 2 were asked their favourite fruit. The results are shown in the tally charts.

What is the same? What is different?

Class 1		Class 2	
Fruit	Total	Fruit	Total
Banana	15	Banana	12
Apple	6	Apple	9
Orange	11	Orange	10
Peach	8	Peach	9

If three children in Class 2 chose banana instead of apple, how would that change the results?

The same: Both tally charts show that banana is the favourite fruit and orange is the second favourite. The number of children in both classes is the same - 40.
Different: In Class 1, three more children like banana and 1 more prefers orange. Three more children chose apple in Class 2.
 If three children in Class 2 chose a banana instead of an apple, then both classes would have the same number of votes for banana -15 and the same number of votes for apple - 6.



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What is the same? What is different?

Class 1		Class 2	
Fruit	Total	Fruit	Total
Banana	15	Banana	12
Apple	6	Apple	9
Orange	11	Orange	10
Peach	8	Peach	9

If three children in Class 2 chose banana instead of apple, how would that change the results?

The same: Both tally charts show that banana is the favourite fruit and orange is the second favourite. The number of children in both classes is the same - 40.
Different: In Class 1, three more children like banana and 1 more prefers orange. Three more children chose apple in Class 2.
 If three children in Class 2 chose a banana instead of an apple, then both classes would have the same number of votes for banana -15 and the same number of votes for apple - 6.



Leanna and Malachi make a tally chart of the animals they saw on the way to school.

Animal				
Leanna's tally				
Malachi's tally				

Tick one box below that shows all of the animals one of them saw and explain why the

others are incorrect.

Box 1

Box 2

Box 3

Box 4



Class 1 and Class 2 were asked their favourite fruit. The results are shown in the tally charts.

What is the same? What is different?

Class 1	
Fruit	Total
Banana	
Apple	
Orange	
Peach	

Class 2	
Fruit	Total
Banana	
Apple	
Orange	
Peach	

How many children in Class 2 would need to choose a banana instead of an apple to get the same results as Class 1?

Could the same thing be done with the peach and orange votes? Explain why.



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Leanna's tally				
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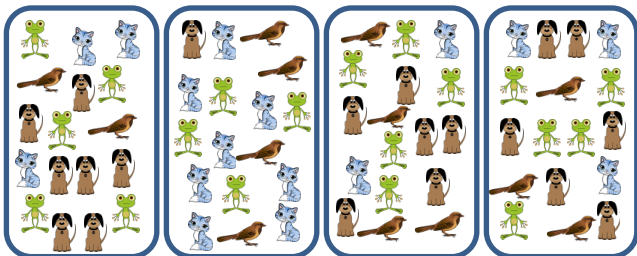
others are incorrect.

Box 1

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Class 1 and Class 2 were asked their favourite fruit. The results are shown in the tally charts.

What is the same? What is different?

Class 1	
Fruit	Total
Banana	
Apple	
Orange	
Peach	





Class 2	
Fruit	Total
Banana	
Apple	
Orange	
Peach	

How many children in Class 2 would need to choose a banana instead of an apple to get the same results as Class 1?

Could the same thing be done with the peach and orange votes? Explain why.




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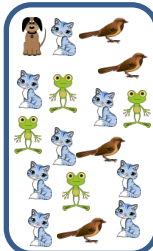
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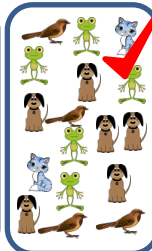
Box 1




Box 2



Box 3



Box 4



Box 3 shows all of the animals Leanna saw. In the other boxes, the number of animals shown doesn't match Leanna's tally and Malachi's tally as well.

Class 1 and Class 2 were asked their favourite fruit. The results are shown in the tally charts.

What is the same? What is different?

Class 1		
Fruit	Total	
Banana		14
Apple		9
Orange		9
Peach		8

Class 2		
Fruit	Total	
Banana		12
Apple		9
Orange		12
Peach		10

How many children in Class 2 would need to choose a banana instead of an apple to get the same results as Class 1?

Could the same thing be done with the peach and orange votes? Explain why.





The same: Both classes have 9 votes for apple. Both tally charts show that banana is the favourite fruit.

Different: In Class 1, two more children like banana. In Class 2, three more children chose orange and two more children chose peach. Two children in Class 2 need to choose banana instead of apples to get the same results as Class 1.

The same thing couldn't be done with peach and orange votes because in Class 2 there are more children that have chosen peach and apple than in Class 1.




Leanna and Malachi make a tally chart of the animals they saw on the way to school.

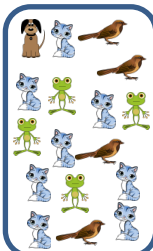
Animal				
Leanna's tally				
Malachi's tally				

Tick one box below that shows all of the animals one of them saw and explain why the others are incorrect.


Box 1




Box 2



Box 3



Box 4



Box 3 shows all of the animals Leanna saw. In the other boxes, the number of animals shown doesn't match Leanna's tally and Malachi's tally as well.

Class 1 and Class 2 were asked their favourite fruit. The results are shown in the tally charts.

What is the same? What is different?

Class 1		
Fruit	Total	
Banana		14
Apple		9
Orange		9
Peach		8

Class 2		
Fruit	Total	
Banana		12
Apple		9
Orange		12
Peach		10

How many children in Class 2 would need to choose a banana instead of an apple to get the same results as Class 1?

Could the same thing be done with the peach and orange votes? Explain why.

The same: Both classes have 9 votes for apple. Both tally charts show that banana is the favourite fruit.

Different: In Class 1, two more children like banana. In Class 2, three more children chose orange and two more children chose peach. Two children in Class 2 need to choose banana instead of apples to get the same results as Class 1.

The same thing couldn't be done with peach and orange votes because in Class 2 there are more children that have chosen peach and apple than in Class 1.