Homework/Extension Step 1: Interpret Charts

National Curriculum Objectives:

Mathematics Year 4: (4S1) <u>Interpret and present discrete and continuous data using</u> <u>appropriate graphical methods, including bar charts and time graphs</u> Mathematics Year 4: (4S2) <u>Solve comparison, sum and difference problems using</u> <u>information presented in bar charts, pictograms, tables and other graphs</u>

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Identify if a pictogram has been correctly converted into a bar chart, using 1:1 correspondence.

Expected Identify if a pictogram has been correctly converted into a bar chart, using 10:1 correspondence.

Greater Depth Identify if a pictogram has been correctly converted into a bar chart, using 3:1 correspondence.

Questions 2, 5 and 8 (Varied Fluency)

Developing Identify a misinterpretation based on a bar chart, using 1:1 correspondence. Single step question.

Expected Identify a misinterpretation based on a bar chart, using 2:1 correspondence. Two step question.

Greater Depth Identify a misinterpretation based on a bar chart, using 4:1 correspondence. Multi step question.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain whether the presentation of information is most appropriate or not. Single step question.

Expected Explain whether the presentation of information is most appropriate or not and how they would do it. Two step question.

Greater Depth Explain whether the presentation of information is most appropriate or not and how they would do it. Multi step question.

More <u>Year 4 Statistics</u> resources.

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Homework/Extension – Interpret Charts – Teaching Information

Interpret Charts



3. Patrick has used the information in the table below to make a pictogram.

Do you think a pictogram is the best way to present this information? Explain your answer.

Favourite Wild Animal		Favourite Wild Animal		
Lion		Lion	$\bigcirc \bigcirc \bigcirc$	
Tiger		Tiger		
Giraffe		Giraffe		
Elephant		Elephant	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$	
			Key: C = 1 animal	

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Homework/Extension – Interpret Charts – Year 4 Developing

Interpret Charts



6. Lena has used the information in the table below to make a pictogram.

Do you think a pictogram is the best way to present this information? Explain your answer.

	Pets			
Dogs	****		Do	
Cats	****		Сс	
Tortoise	####H		Tort	
Fish	## ## ##		Fi	
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Homework/Extension – Interpret Charts – Year 4 Expected

Interpret Charts



- 9. Jude has used the information in the table below to make a pictogram.
- A. Do you think a pictogram is the best way to present this information? Explain your answer.
- B. Draw your own chart to present the information in the table.

Size of Audience at Cinema		Size of Audience at Cinema		
1pm	╫╫╫╫	1pm		
3pm	╫╫╫╫╫╫	3pm		
5pm		5pm		
7pm	****	7pm		
<u>^</u>			Key: () = 10 people	

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HW/Ext



Homework/Extension - Interpret Charts - Year 4 Greater Depth

Homework/Extension Interpret Charts

Developing

1. False, the scale should start at 0 and the labels for Legend/Adventure have been mixed up.

2. No, 4 more children have 1 sibling than have 4 or more siblings.

3. Various possible answers, for example; Yes because the values are small so they are easy to count using a pictogram.

No, a bar chart would be easier to display the small values.

Expected

4. False, the scale should go up in 2s, not in 10s and the labels for M Hussain and JK Taylor have been mixed up.

5. No, 20 children got 21 or more answers correct in a minute.

6. Various possible answers, for example; No, a bar chart that uses a scale of 1 picture =

2 pets would be a better way of presenting the information.

Greater Depth

7. False, the scale should go up to 21 and the orange/cola labels have been mixed up.

8. No, there are one third as many ash trees as oak and birch.

9. A. Various possible answers, for example; No, it is not easy to show numbers that are not multiples of the scale when using a pictogram.

B. An accurate bar chart with a scale of 5:1.





Homework/Extension – Interpret Charts ANSWERS