

**Which Graph ?**

For each set of data below, draw the appropriate graph – bar chart or line graph. Think carefully if the data is discrete or continuous.

1. A café did a survey to find the most popular sandwiches on the menu.

|  |  |
| --- | --- |
| **Sandwich** | **Number of votes** |
| Ham, cheese and pickle | 7 |
| Chicken mayonnaise | 12 |
| Tuna and sweetcorn | 9 |
| Cheese and tomato | 6 |
| Egg mayonnaise | 7 |

1. Year 4 did a science experiment to find how the length of a spring changed when they added weights to the end. Here are their results.

|  |  |
| --- | --- |
| **Weight (g)** | **Length of spring (CM)** |
| 0 | 6 |
| 25 | 10 |
| 50 | 14 |
| 75 | 18 |
| 100 | 22 |
| 125 | 26 |
| 150 | 32 |

1. What was the length of the spring when 75g was added?
2. What would the length of the spring be if we added 60g?
3. By how much did the spring stretch altogether?
4. The Headteacher needed to know exactly how many boys and girls were in each year group.

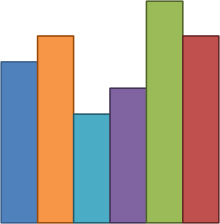
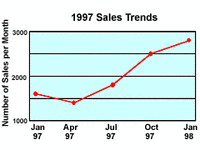
|  |  |  |
| --- | --- | --- |
| **Year Group** | **Boys** | **Girls** |
| Nursery | 34 | 28 |
| Reception | 25 | 40 |
| 1 | 26 | 35 |
| 2 | 28 | 32 |
| 3 | 28 | 32 |
| 4 | 24 | 33 |
| 5 | 35 | 24 |
| 6 | 24 | 35 |

1. A lorry driver recorded how far he had travelled every 2 hours.

|  |  |
| --- | --- |
| **Time** | **Distance travelled (KM)** |
| 8am | 100 |
| 10am | 200 |
| 12pm | 300 |
| 2pm | 350 |
| 4pm | 425 |
| 6pm | 425 |

1. Between 8am and 12pm how many kilometres per hour was the lorry travelling?
2. Why might it have been less between 12pm and 2pm?
3. What do you think might have happened to slow the lorry driver down between 2pm and 4pm?
4. What time do you think the lorry driver stopped work?





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Answers

1. Discrete data – you should have drawn a bar graph
2. Continuous data – you should have drawn a line graph
3. Discrete data
4. Continuous data
5. Discrete data
6. Continuous data