**scatter diagrams**

**bar charts &**

**Pie charts,**

**D**

**Pythagroas**

**GRADE BUSTER**

*Your ‘5 a day’ mathematical workout*

1. Class 4f keep a record of the number of portions of fresh fruit and vegetables eaten by the class on a Tuesday. The results are shown in the table:

|  |  |
| --- | --- |
| Number of portions | Frequency  Represent the information by constructing:  a) a bar chart and  b) a pie chart. |
| 0 | 6 |
| 1 | 4 |
| 2 | 7 |
| 3 | 5 |
| 4 | 5 |
| 5 | 3 |

2. Use the pie chart to complete the table:

|  |  |
| --- | --- |
| Favourite Snack | Frequency |
| Crisps |  |
| Chocolate | 4 |
| Popcorn |  |
| Biscuit |  |

3. Draw 3 scatter diagrams with a positive correlation.

4. i) Explain what is wrong with the following statement: *More students in Class B prefer crisps than in Class A.*

Class A

Class B

5) The table show the amount of rainfall (cm) during the first 6 months

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| January | February | March | April | May | June |
| 24 | 19 | 21 | 12 | 15 | 8 |

Comment on the trend by plotting a time series using 3-point moving averages.

|  |  |  |  |
| --- | --- | --- | --- |
| Qu |  | ☺ | ☹ |
| 1a | I can construct bar charts |  |  |
| 1b & 2 | I can construct pie charts |  |  |
| 4 | I can interpret pie charts |  |  |
| 3 | I can interpret scatter diagrams |  |  |
| 5 | I can calculate moving averages |  |  |
| 5 | I can construct time series graphs |  |  |
| 5 | I can interpret time series graphs |  |  |

|  |
| --- |
| Top tips I must remember for the exam: |
| ☺  ☺  ☺ |
| Types of questions I need to practise more: |
| ☺  ☺  ☺ |