** Statistical Inquiry (F)**

Pre-Intervention Assessment

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Question** | **Objective** | **RAG** |
| 1 | Calculate averages from a set of data |  |
| 2 | Understand and apply types of sampling |  |
| 3 | Calculate averages from a table |  |

**1.** Chloe made a list of her homework marks.

4 5 5 5 4 3 2 1 4 5

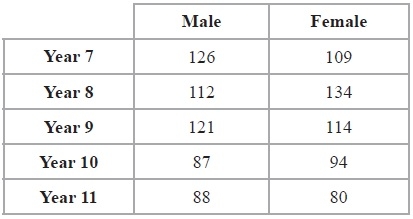
(a) Write down the mode of her homework marks.

…………………….

(b) Work out her mean homework mark.

…………………….

**2**. The table shows information about 1065 students.



Elena takes a stratified sample of 120 students by year group and by gender.

Work out the number of Year 8 female students in her sample.

...........................................................

**3.** Fred did a survey on the areas of pictures in a newspaper.  
The table gives information about the areas.

|  |  |
| --- | --- |
| **Area (A cm2)** | **Frequency** |
| 0 < *A* ≤ 10 | 38 |
| 10 < *A* ≤ 25 | 36 |
| 25 < *A* ≤ 40 | 30 |
| 40 < *A* ≤ 60 | 46 |

Work out an estimate for the mean area of a picture.

........................................................... cm²

[Glue here]