**End of Unit Test** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Data – Interpreting Results - FOUNDATION**

**1.** The table shows the sales of food and drink for three days at a market stall.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Day** | **Sales of food (£)** | **Sales of drink (£)** |
|   | Thursday | 34 | 16 |
|   | Friday | 22 | 48 |
|   | Saturday | 46 | 28 |

Hannah uses this information to draw a composite bar chart.

Write down **three** different mistakes that she has made.

Mistake 1 ……………………………………

………………………………………………...

Mistake 2 ……………………………………

………………………………………………...

Mistake 3 ……………………………………

………………………………………………...

**(Total 3 marks)**

**2.** Here are seven numbers.

13              6              12              7              6              4              8

(a) Work out the range of the seven numbers. Circle your answer.

5                      6                      7                      8                      9

**(1)**

(b) What is the mode of the seven numbers? Circle your answer.

5                      6                      7                      8                      9

**(1)**

**(Total 2 marks)**

**3.** I am thinking of three positive numbers. The mode is 5. The median is 5. The range is 9. Work out the three numbers.

Answer ....................... , ....................... , .......................

**(Total 2 marks)**

**4.** The pie chart shows information about how people voted in an election. 1800 people voted for D. How many **more** people voted for C than B?

 …………………………………………………………

 …………………………………………………………

 …………………………………………………………

 …………………………………………………………

 …………………………………………………………

Answer .......................................................................

**(Total 3 marks)**

**5.** Seven students have to learn some French words. The table shows the time they spent learning the words and the number of words they got wrong in a test.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   | **Time (hours)** | 1 | 3 | 3 | 4 | 6 | 7 | 8 |
|   | **Number of wrong words** | 8 | 6 | 5 | 4 | 3 | 2 | 2 |

(a) The first four points have been plotted. Complete the scatter diagram.

**(1)**

(b) Describe the relationship shown by the scatter diagram.

 ………………………

 ………………………

 ………………………

 ………………………

**(1)**

(c) Another student spent 5 hours learning the words. Use a line of best fit to estimate the number of words he got wrong.

Answer ......................................................................

**(2)**

(d) Ellie has to take the test. She says, “If I learn the words for 12 hours, I will definitely not get any wrong.” Is she correct? Give a reason for your answer.

 …………………………………………………………………………………………………

 …………………………………………………………………………………………………

**(1)**

**(Total 5 marks)**

**6.** The table shows information about the pay per hour of 40 people.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|   | **Pay per hour, *x* (£)** | **Frequency** |   |   |
|   | 5 < *x* ≤ 15 | 14 |   |   |
|   | 15 < *x* ≤ 25 | 12 |   |   |
|   | 25 < *x* ≤ 35 | 11 |   |   |
|   | 35 < *x* ≤ 45 | 2 |   |   |
|   | 45 < *x* ≤ 55 | 1 |   |   |
|   |   | Total = 40 |   |   |

(a) Which group contains the median pay per hour? Circle your answer.

 5 < *x* ≤ 15       15 < *x* ≤ 25       25 < *x* ≤ 35       35 < *x* ≤ 45       45 < *x* ≤ 55

**(1)**

(b) Work out an estimate of the mean pay per hour.

 …………………………………………………………………………………………………

 …………………………………………………………………………………………………

 …………………………………………………………………………………………………

Answer £ .................................................................................

**(4)**

**(Total 5 marks)**

 **(Total for test = 20 marks)**