Answers to Analysis activity: Working with data

**1**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date** | **Number of deaths due to** | | | | | | |
| **Plague** | **Fever** | **Spotted fever** | **Surfeit** | **Teeth** | **Other diseases** | **% plague** |
| 8-15 Aug |  | 353 | 190 | 87 | 113 |  |  |
| 15-22 Aug |  | 348 | 166 | 74 | 111 | 632 |  |
| 22-29 Aug | 6102 | 383 | 165 | 99 | 133 | 614 | 81.4034 |
| 29 Aug – 5 Sept | 6988 | 364 | 157 | 68 | 138 | 537 | 84.6825 |
| 5-12 Sept | 6634 | 332 | 97 | 45 | 128 | 454 | 86.2679 |
| 12-18 Sept | 7165 | 309 | 101 | 49 | 121 | 552 | 86.3565 |
| 19-26 Sept | 5533 | 268 | 65 | 36 | 112 | 446 | 85.6502 |

*Mark table as follows*

Date in first column;

Figures for number of deaths due to fever, spotted fever,

Surfeit and teeth entered correctly;

Figures for plague calculated and entered correctly;

Figures for other diseases calculated and entered correctly; 5

**2** Not all deaths were reported;

Fewer doctors/less advanced medicine meant the diagnosis was often incorrect;

Diseases such as fevers may have had more than one cause; 2 max

**3** (a) See final column of table above

Number of deaths due to plague x 100%

Number of deaths due to all diseases

*Two marks for the correct answer. Allow one mark for showing working clearly.* 3 max

(b) *Allow one mark for a basic answer such as that*

The population size would vary;

*Allow two marks for a more detailed answer such as that*

A large number of people dying of plague might reflect a larger population;

In different times/places 2 max

*Graded mark schemes such as this can be very useful in distinguishing between students who have the basic idea and those who can explain this idea in appropriate detail.*