Outside of Class

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

Statistics Lesson 7: Standard Deviation and Variance

1. A survey was conducted of the number of bedrooms in 208 randomly chosen houses. The results are shown in the following table.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Number of bedrooms | 1 | 2 | 3 | 4 | 5 | 6 |
| Number of houses | 41 | 60 | 52 | 32 | 15 | 8 |

(a) State whether the data is discrete or continuous.

(1)

(b) Write down the mean number of bedrooms per house.

(2)

(c) Write down the standard deviation of the number of bedrooms per house.

(1)

(d) Find how many houses have a number of bedrooms greater than one standard deviation above the mean.

(2)

(Total 6 marks)