**Understanding Function Notation**

**A grocery store scanner at Safeway connects a barcode number on a grocery item to its price.**

1. Is barcode a function of price? (Hint: determine which variable is the input)Explain.
2. Is price a function of barcode? When compared to statement a) is the input different for this statement? Does the statement represent a function? Explain

**A child’s piano has 12 keys, each of which corresponds to a note.**

1. Is note sounded a function of key pressed? Explain
2. Is the key pressed a function of the note desired? Explain.

**The following table gives the average math placement exam scores and average final exam scores.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Average score on math placement exam** | **81** | **75** | **60** | **85** | **90** | **75** |
| **Average score on final exam** | **86** | **70** | **59** | **92** | **95** | **81** |

**Using only the data given the table determine the following and explain your reasoning.**

1. Is the average score on the final exam a function of the average score on the placement exam
2. Is the placement exam score a function of the average final exam score?

**During the first two weeks in May, a man weighs himself daily in pounds and records the data.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Day in May | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Weight | 178 | 177 | 178 | 177 | 176 | 176 | 175 | 176 | 175 | 174 | 173 | 173 | 172 | 171 |

* 1. Why does the table define weight as a function of the day in May?
  2. What is the domain of this function?
  3. What is the range of the function?