Name: Class: Mark:

1. The following table contains a number of statements. For each statement,   
tick whether it is True or False. [8]

|  |  |  |
| --- | --- | --- |
|  | **True** | **False** |
| Assembly code is a low level language |  |  |
| Each processor uses a different high level language |  |  |
| Low level languages are easier to learn and program than high level languages |  |  |
| A compiler translates a high level language into machine code |  |  |
| An interpreter translates a low level language into machine code |  |  |
| A compiler produces an executable file that can be run independently of the software that created it |  |  |
| An interpreter executes each statement as soon as it has been translated |  |  |
| Low level code is close to machine code, with each instruction generally translating into one machine code instruction |  |  |

2. Clare has created a piece of software which she wants to sell to schools, but she does not want anyone to copy her source code. She has the choice of using a language that will be compiled or a language that will be interpreted.

(a) Explain why Clare would decide to use a language that needs to be compiled to develop her program and prevent customers copying her source code. [2]

(b) Explain **one** advantage if Clare decided to use an interpreted language. [2]

(c) Explain **one** disadvantage of Clare using an interpreted language. [2]

(d) Give **one** reason why a programmer may need to make a program using assembly language. [1]

[Total 15 marks]