

## 6-A-Day – Computer Science GCSE (12)

Q1	<p>A small business has three stand-alone computers, a printer and an internet connection in an office.</p> <p>(b) Describe, using a diagram, how the computers can be connected to each other using a bus topology, stating what hardware will be needed.</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>..... [6]</p>
Q2	<p>Add the following two 8-bit binary numbers and explain the result. You must show your working.</p> $\begin{array}{r} 1\ 0\ 0\ 1\ 0\ 1\ 1\ 1 \\ +\ 1\ 1\ 0\ 1\ 1\ 0\ 0\ 0 \\ \hline \end{array}$ <p>.....</p> <p>..... [3]</p>
Q3	<p>Karen wants to use handheld computers to take customers' orders in her restaurant. She is thinking of using custom written, open source software.</p> <p>State two reasons why Karen may decide to use custom written software.</p> <p>1. ....</p> <p>.....</p> <p>2. ....</p> <p>..... [2]</p>

