01.1 Convert the decimal number 198 into hexadecimal. [2 marks]
Answer:
01.2 Add together the following three binary numbers and give your answer in 8 bit binary [2 marks]
00001011
01001010
<u>+ 00010001</u>
01.3 What binary shift can be used to quadruple the value of a binary number?
[2 marks]
01.4 The Lithuanian alphabet has 32 characters. What is the minimum number of bits needed to be able to represent any character from the Lithuanian alphabet?
[1 mark]
02.1 A bitmap image is represented as a grid of pixels. State what is meant by the term pixel. [1 mark]
02.2 State the maximum number of different colours that can be used if a bitmap image has a colour depth of six bits.
[1 mark]
02.3 What is the minimum file size for an 800 pixel by 1000 pixel bitmap image that uses 20 different colours? You should give your answer in kilobytes . You should show your working. [3 marks]