

Hexadecimal numbers

Worksheet 1

1 Why is hexadecimal used in computing?

2 The pixels in RGB computer images are programmed by three, 8 bit numbers for the red, green and blue channels. These binary numbers are usually represented by their hexadecimal equivalents.

In the following table insert the binary and hexadecimal equivalents for the following colours.

COLOUR	BINARY	HEXADECIMAL
Red		
Green		
Blue		
Yellow		
Black		
White		

3 A student used the ipconfig program to find his ip address and MAC or physical address.

The MAC number was shown as 6 hexadecimal numbers - C4 – 46 – 19 – 73 – 49 – 70.

In the table below, insert the denary and binary equivalents of the first three of these hexadecimal numbers.

Hexadecimal	C4	46	19
Denary			
Binary			

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Convert the following denary numbers to hexadecimal.

(a) 96

(b) 201

(c) 141