



Computers sample sound at intervals when recording sound.

1. How is sound sampled when recording using a computer.

[2]

2. What are the effects of sampling sound at higher intervals?

[2]

3. What does recording sound with a higher bit depth result in?

[2]

4. What is the result of a higher colour depth when storing images from 2 bits to 4 bits?

[2]

5. Convert the denary number 57 into binary

[1]

6. Convert the hexadecimal number 8D to denary

[1]

1	1	1	0	1	1	1	0	1	1	1
1	0	0	0	1	0	0	0	0	0	1
1	1	0	0	1	1	0	0	0	1	0
1	0	0	0	1	0	0	0	1	0	0
1	0	0	0	1	1	1	0	1	1	1

7. An image is stored using a 1 bit colour depth. The image has a height of 5 pixels and a width of 11. What is the image resolution?

_____ [2]

8. What would be the resolution of the image colour depth was 2 bits?

_____ [1]

9. Add the following 2 binary numbers together using binary addition.

$$\begin{array}{r}
 1 \quad 1 \quad 0 \quad 0 \quad 1 \quad 1 \quad 1 \quad 0 \\
 0 \quad 0 \quad 1 \quad 1 \quad 0 \quad 1 \quad 0 \quad 1 \\
 \hline
 \\
 \hline
 \end{array}$$

[2]

10. Arrange the following into the correct order of size by number them from smallest to largest unit size.

Unit	Order
Gigabyte	
Bit	
Nibble	
Byte	
Megabyte	

[5]

