

# DATA REPRESENTATION IN COMPUTER SYSTEMS



## Data Representation

Numbers, Text, Graphics,  
Sound

Base 2 is better known as what?

Denary is which number base?

Why do computers need to convert all data into binary?

Bit is a Binary Digit (0 or 1)

4 bits =

8 bits =

1024 bytes =

1024 Kbytes =

1024 Mbytes =

1024 Gbytes =

When digitising sound, what is meant by the Sample Rate?



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

Circle the **most significant** bit of the number below:

**1 0 0 0 0 1 0 1**

Briefly explain the difference between a bitmap and a vector graphic.



ASCII stands for?

Why was there a need to introduce UNICODE?

Name two benefits to using hexadecimal

AF3

1.

2.

What is the advantage of using fixed point binary?

Are there any disadvantages to this system?

