### iGCSE Computer Science

# Data Representation & Data Types



# Data Types

String

Char

Boolean

Integer

Real / Float



## Data Types - Pseudocode Cheat Sheet

#### Declaration

DECLARE mystring AS STRING

#### Assignment



## Number Systems

Denary

Binary

Hexadecimal

What is the Base of a number system?





# Binary to Denary

128	64	32	16	8	4	2	1

Why do computers use binary?



[2]



# Denary to Binary

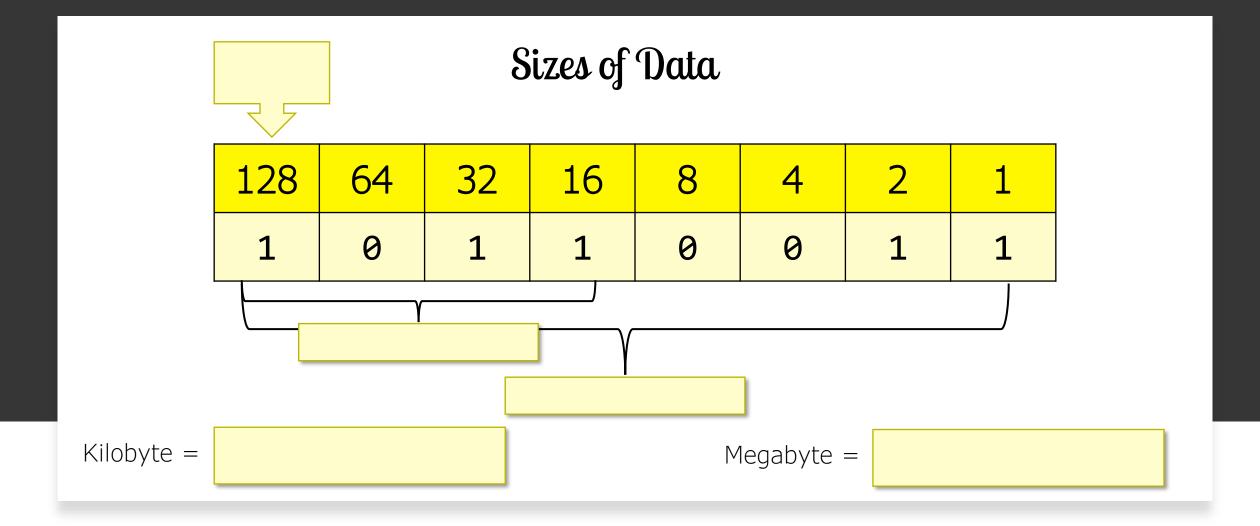
128	64	32	16	8	4	2	1

Where are the most & least significant bits?



[2]







## **Practice Questions**

Convert the binary numbers below into denary:

128	64	32	16	8	4	2	1
0	0	1	1	0	1	1	0

128	64	32	16	8	4	2	1
1	0	1	1	0	0	1	0

128	64	32	16	8	4	2	1
0	1	1	0	1	0	0	1

128	64	32	16	8	4	2	1
0	0	1	1	0	1	1	0



