

Exam revision

Unit 4

Key concepts	
Binary shift left	
Binary shift right	
Overflow	If the result of an _____ or _____ process results in a number that is too large to fit in the space available then an overflow has occurred.

	Vector images	Bitmap images	Raster images
Made up of		Pixels	
If the dimensions are changed	No loss of quality		
File size			Very large

Meta data

_____ about _____

Examples:

Location

_____ , _____ , _____ , _____

Data types	Examples
1-	1- 1, 44, 457656654
2-	2-
3- Character	3-

Character sets

_____ are represented by a unique binary code

ASCII

Is able to _____ between different programs

UNICODE

(1) Can represent _____ (2) Needs more memory to store

Validation



Validation type: _____

Description: _____

Example: _____

Validation type: _____

Description: Does it have a digit in a particular place

Example:

Validation type: _____

Description: _____

Example: Wales, England, Scotland, Northern Ireland

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Overflow	If the result of an _____ or _____ process results in a number that is too large to fit in the space available then an overflow has occurred.

	Vector images	Bitmap images	Raster images
Made up of			Pixels
If the dimensions are changed			
File size	Small file size		Very large

Meta data

Examples:

Data types	Examples
1-	1-
2-	2- 0.214
3-	3-
4- String	4-

Character sets

Characters, symbols and _____ are all made up of _____ binary code

ASCII

_____ interchange _____ programs

UNICODE

(1) _____ (2) Needs more memory to store

Validation



Validation type:

Description:

Example:

Validation type: Lookup

Description:

Example:

Validation type:

Description:

Example:

Validation type:

Description: Has anything been entered?

Validation type:

Description:

Example: JH90A (the A is a check digit)

Complete the table, suggesting:

- [6]

Field name	Data type	Example data	Validation check
Customer ID		3	
First Name	String	Warren	Presence check
Surname	String	Davies	Presence check
Gender		M	Presence check
Date of birth	Date	28/11/1981	
Address	String	123 Western Avenue	Presence check
Post code	String	CF12 3AB	
Telephone number		029 2026 5137	Length check

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- A large, light gray graphic featuring the letters 'H' and 'S' on a background of horizontal dashed lines. The 'H' is composed of three vertical bars and a central square cutout. The 'S' is a thick, curved shape. The dashed lines are evenly spaced and extend across the entire width of the image.

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