

## Unit 2.6 Data Representation

### Lesson 3 – Images

## MCQS

The numbers after the question are an approximate estimation of relative difficulty, broadly based around the new GCSE Numbering System. Please note that these were produced before final guidance was released regarding levels of difficulty and as such should be used as a rough guide only.

<b>Question 1: What do we call the smallest unit of data that can be represented in an image? (1-4)</b>		✓
Pixel		
Dot		
Colour		
Bit		
<b>Question 2: What is meant by Colour Depth? (4-6)</b>		✓
Number of pixels in the image		
The number of colours available for each pixel		
How pixelated the image is		
<b>Question 3: If you increase the colour depth then the file size will decrease? (4-6)</b>		✓
True		
False		
<b>Question 4: How many colours can be represented with a 4 bit colour depth? (7-9)</b>		✓
2		
4		
16		
256		
<b>Question 5: What is the term used to define what must be known about a bitmap, for it to be represented accurately? (4-6)</b>		✓
Microdata		
Metadata		
Megadata		
<b>Question 6: In modern technology what unit of measurement would be used for screen size? (4-6)</b>		✓
Pixels per inch (PPI)		
Dots per inch (DPI)		
Pixels per metre (PPM)		
<b>Question 7: Which of the following is not stored as Metadata about an image? (6-9)</b>		✓
Height		
Colour Depth		
Resolution		
Number of people in the image		

## MCQS

<b>Question 8: Which of the following is not an image file? (4-6)</b>		✓
PNG		
JPEG		
Bitmap		
MPEG		
<b>Question 9: What three colours are used to produce a broad array of colours in a computer system? (1-4)</b>		✓
Green, Red, Orange		
Red, Green, Blue		
Yellow, Green, Red		
<b>Question 10: What is the name of the type of graphic that uses shapes of solid colour? (6-8)</b>		✓
Raster		
GIF		
JPEG		
Vector		

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## MCQS ANSWERS

<b>Question 1: What do we call the smallest unit of data that can be represented in an image? (1-4)</b>	✓
Pixel	✓
Dot	
Colour	
Bit	
<b>Question 2: What is meant by Colour Depth? (4-6)</b>	✓
Number of pixels in the image	
The number of colours available for each pixel	✓
How pixelated the image is	
<b>Question 3: If you increase the colour depth then the file size will decrease? (4-6)</b>	✓
True	
False	✓
<b>Question 4: How many colours can be represented with a 4 bit colour depth? (7-9)</b>	✓
2	
4	
16	✓
256	
<b>Question 5: What is the term used to define what must be known about a bitmap, for it to be represented accurately? (4-6)</b>	✓
Microdata	
Metadata	✓
Megadata	
<b>Question 6: In modern technology what unit of measurement would be used for screen size? (4-6)</b>	✓
Pixels per inch (PPI)	✓
Dots per inch (DPI)	
Pixels per metre (PPM)	
<b>Question 7: Which of the following is not stored as Metadata about an image? (6-9)</b>	✓
Height	
Colour Depth	
Resolution	
Number of people in the image	✓

## MCQS ANSWERS

<b>Question 8: Which of the following is not an image file? (4-6)</b>		✓
PNG		
JPEG		
Bitmap		
MPEG		✓
<b>Question 9: What three colours are used to produce a broad array of colours in a computer system? (1-4)</b>		✓
Green, Red, Orange		
Red, Green, Blue		✓
Yellow, Green, Red		
<b>Question 10: What is the name of the type of graphic that uses shapes of solid colour? (6-8)</b>		✓
Raster		
GIF		
JPEG		
Vector		✓

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