Codefez 1.2 Worksheet 1 Answers - Units, Data Storage & Compression

Q	Answer						Mark	Guidance
1	Megabyte	Byte	Bit	Gigabyte	Petabyte	Nibble	1	
	4	3	1	5	6	2		
2	1 mark for each correct answer:						2	
	- RAM cannot store files long term / RAM is volatile							
	- José needs to find out the how much secondary storage the laptop has							
3	1 mark for each correct answer:						2	
	- Show working – 2048 MB (2000) / 500 = 4							
	- Answer as 4 videos							
4	Data is stored in a state of on/off // 1/0 // positive/negative charge/flow in circuits						1	
5	2 Lossy means the decompressed file is not identical to the original							
	2the difference is unlikely to be noticed by humans							
	Lossy will decrease the file size so it can be sent via e-mail							
6	0110 0001						1	
7	- Working; shows 97 converted into binary (1100 0001)						2	
'	- Working; shows 97 converted into binary (1100 0001) - Then 0110 converted to 6 and 0001 converted to 1						2	
	- 61							
8	1 mark per nibble						2	
	1110 0111							
9	- 1 mark for filling in the denary column correctly.						6	
	- 1 mark for each of the ASCII rows filled in correctly for characters d, e & f.					ı f.		
	- 2 marks for correctly working out the ASCII code for the character z.							
	Character Denary ASCII Code							
	c 99 01100011							
		00 01100						
		01 01100						
	f 102 01100110							
		11 01101						
		22 01111	.010					
10							1	
11	Each shift divides the number by 2 // the number is divided by 4							