

Q	Answer	Mark	Guidance												
1	<ul style="list-style-type: none">- The amplitude of the sound is measured using a mic- ... and is converted to binary- ... at regular intervals	2													
2	<ul style="list-style-type: none">- The more regular the intervals, the more data there is to store.- ... therefor the file size will be bigger- Samples at higher intervals means that the sound will be closer to the original sound	3													
3	<ul style="list-style-type: none">- Higher bit depth means that there is a higher number of bits available to record the height of a wave.- A higher bit depth that means that sampled data will be closer to an actual analogue wave.	2													
4	<ul style="list-style-type: none">- More bits would mean that there would be a higher number of colours that can be stored.- 2 bits would mean that there are 4 possible colours (2²).- ... 4 bits would mean that there would be 16 possible colours (4²)	2													
5	00111001	1													
6	141	1													
7	Resolution = 1 (colour depth) x 5 (height) x 11 (width) = 45	2	1 mark for working out, 1 mark for answer												
8	Resolution = 90	1													
9	1 mark for: <ul style="list-style-type: none">- Correct answer of (1)00000111- 1 mark for correctly circling the overflow	2													
10	1 mark for each correct answer <table><tr><th>Unit</th><th>Order</th></tr><tr><td>Gigabyte</td><td>5</td></tr><tr><td>Bit</td><td>1</td></tr><tr><td>Nibble</td><td>2</td></tr><tr><td>Byte</td><td>3</td></tr><tr><td>Megabyte</td><td>4</td></tr></table>	Unit	Order	Gigabyte	5	Bit	1	Nibble	2	Byte	3	Megabyte	4	5	
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