



Homework 1: Storage units and binary numbers

1. Give one reason why data is represented in binary in a computer

[1]

2. How many bits are there in a byte?

[1]

3. How many bytes are there in a MB?

[1]

4. A photographer takes up to 2000 photographs per week. Each photograph requires 5MB of storage on the camera's memory card.

Select the camera memory card with the smallest capacity that can store 2000 photographs. (Put a tick in the box next to your answer.)

Capacity in GB		
A	4	
B	8	
C	16	
D	32	

[1]

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Unit 8 Data representation



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5. For each of the binary values below, write down the decimal equivalent. You should include your working. [4]

a. 00001011

b. 01110110

c. 10010111

d. 11111111

6. Calculate the binary equivalent of each of the following numbers: You should include your working. [4]

a. 34

b. 128

c. 149

d. 201

[Total 12 marks]