Name: Class:

# Task 1

# 1. How many bytes are there in:

(a) 3 kB?

(b) 2.5 MB?

(c) 2 GB?

(d) 4 kb

# 2. For each of the binary values below, write down the denary equivalent. Use the grid below to help you.

(a) 1101

(b) 1111

(c) 00100110

(d) 10110111

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

# 3. What binary value is represented by the switches in the following circuit?

# 4. For the binary number 0110 1101, what is the value stored in:

(a) the most significant bit?

(b) the least significant bit?

# Task 2

# 1. For each of the denary values below, write down the binary equivalent.

(a) 18

(b) 57

(c) 163

(d) 255

# 2. How many bytes would be needed to store the number 256?