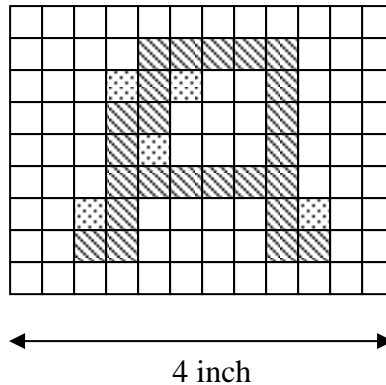Name: _____   Class: _____ (   )

S1 Supplementary Exercise – Digital Image

1. The following shows an image of a letter "A".

4 inch

(a) Write down the pixel dimensions of the image.

Width: _____ px   Height: _____ px

(b) If there are at most 64 colours in this image, what is the colour depth of the image ?

(c) What is the resolution (in pixels / inch) of the image ?

(d) Hence, find the height (in inch) of the image.

2. The pixel dimensions of an image are 1024 x 512 and the colour depth is 8 bits.
(a) How many colours are there in the image at most?

(b) What is the file size of the image? Give your answer in KB.

(c) Mary prints out the image on a piece of paper. The actual dimensions of the image are 2 cm x 1 cm. What is the image resolution of the image?

3. What is the RGB Code of red in hexadecimal format?   _____

4. What is the RGB code of yellow in binary format?   _____