a) i) Whilst both LCD and CRT screens are used to produce images, they use different technologies. LCD screens - Liquid Crystal Display, use crystals which undergo chemical reactions ~~when~~ to display colour. Cathode Ray Tubes (CRT) on the other hand has a coating of phosphor ~~dot~~ dots on the glass screen, which flouresce. ~~These plass~~ An electron gun is used to produce an electron beam, ~~on~~ which is ~~order used~~ passed through a metal grid. The contact between the electrons and the phosphor dots causes them to flouresce. Three electron guns are used, one for each colour (R G B). LCD's, however, use electrical signals to cause chemical reactions causing the
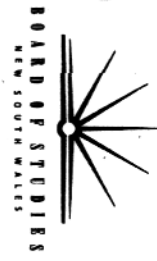
Liquid Crystals to change colour.

~~# CRT~~ Because a CRT has an electron gun, it can only make one dot flouresce, and as ~~the~~ such must scan the screen [Rastor scan]. This causes a flicker and a refresh rate is the time it takes for the screen to be passed by the electron beam. On the other hand, LCD's do not have the need to reffresh (b/c of use of electrical signals), and thus has no flicker. LCD's are also 'flat' and do not protrude ~~into~~ outwards, ~~so~~ like CRT's do due to ~~not~~ the placement of the electron gun. As such, CRT's are also much heavier than LCD screens

ii) Path based animation is a form of animation which stores a keyframe in memory (the background), and simply redraws the object which is moving on ~~every~~ each new frame. The consequtive frame will only draw the new position of the ball. Cell - based animation, however, will redraw every frame. Generally, cell - based animation have greater storage requirements, as each frame is redrawn. However, path - based can be innappropriately used if ~~ea~~ the images are constantly changing, and there is no constant background.

b)   (PTO)

02WB4

WELCOME TO SUNNY'S PAGE!! — heading

steven bradbury link

My page about Aus success!

page 2

Jacqui cooper link

Alisa Camplin link

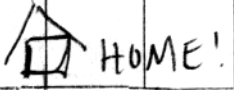## STEVEN BRADBURY

Biography

Photo of Bradbury

click on the icons for special features

- link to audio interview (new window)

- link to video footage (new window)
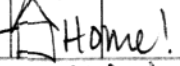
HOME!
link to home page

ALISA CAMPLIN

Biography

Photo of Camplin

click on links for special features
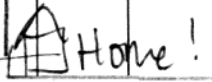
see bradbury

Home!
link home

JACQUE COOPER

Biography

Photo of cooper

click on buttons

see bradbury

Home!
link home!

11) Image size = 400 pixels by 600 pixels

∴ Total number of pixels = Area = 400 × 600

each pixel has 16 colours

$$= 2^4 = 4 \text{ bits per pixel.}$$

∴ total size of image =

$$400 \times 600 \times 4 \underbrace{\text{bits}}_{\text{colours}}$$

$$\underbrace{400 \times 600 \times 4}_{}$$ area (no. of pixels)

$$= \frac{400 \times 600 \times 4}{8} \text{ bytes} \qquad \leftarrow 8 \text{ bits in byte}$$

$$= \frac{400 \times 600 \times 4}{8 \times 1024} \text{ kilobytes} \qquad \leftarrow 1024 \text{ bytes in kb}$$

02WB4

c) ~~Data~~ ~~Disposes~~

Data is collected in this system using fax, email or post. Because the system is computerised, both the fax and post must be digitised. This can be achieved by scanning & OCR or ~~by~~ manually typing up the documents. All photos and graphics can be emailed already in digital format, or they can be scanned in by the Regional Classified staff.

~~Organising the data refers to~~

~~data meaning~~ Data which needs to be collected includes customer name, address, phone number, credit card details (for payment), & advertisement text and/or graphics etc. This can create security issues if the data transmission methods are not secure through encryption or such as PGP or DES.

Organising the data involves selecting the appropriate text types to store the data, and the classifications which they go under. For example all builders advertisements can go under topic 'Construction'

This multimedia system which exists on the internet must have appropriate user interface for the user. An excellent user interface must be presented, with the ability to submit any type of media as an advertisement. However considering that a large proportion of users have dial up connection and have low bandwith, it is important that there is a reasonable limit to file sizes. This will overcome the problem

of long downloads for dial
up connection users. The system
must present to facility for
customers to ~~print~~ download and
print authentic certificates/receipts
for their purchase. Similarly,
~~they should be able to select whose~~
the user interface should ~~to~~ provide
a facility of viewing how
long ~~that~~ the advertisement is to
be online for. The website
must be cautious of the design,
as the lack of judicious use
of colour could affect users. There
must be plenty of white space
available for the viewing. On the
server side of the system, a
~~dot~~ printout on a dot matrix
printer should print a ~~feet~~
copy of every ~~retto~~ transaction

which occurred as a back up
procedure. the