Related numericals and formulas :

1.How Many k bytes does a frame buffer need in a 600 x 400 pixel ?

 Ans. Resolution is 600 x 400

Suppose 1 pixel can store n bits

Then, the size of frame buffer = Resolution X bits per pixel

$$= (600 \text{ X } 400) \text{ X n bits}$$
$$= 240000 \text{ n bits}$$
$$= 240000 \text{ n (as 1kb} = 1024 \text{ bites) } 1024 \text{ X } 8$$
$$= 29.30 \text{ n k bytes}$$

2. Find out the aspect ratio of the raster system using 8 x 10 inches screen and 100 pixel/inch. Ans. We know that,

Aspect ratio = Width Height = 8 x 100 = 4 / 5 10 x 100 Aspect ratio = 4 : 5

3. The access time per pixel = 1/ access rate.

4. Access rate = Resolution * No of frames