Picture Lab

A1

1. How many bits does it take to represent the values from 0 to 255?

* It takes 8 bits.

1. How many bytes does it take to represent a color in the RGB color model?

* It takes 3 bytes.

1. How many pixels are in a picture that is 640 pixels wide and 480 pixels high?

* 307,200 pixels in the picture.

A2

1. How can you make pink?

* R = 255, G = 51, B = 255

1. How can you make yellow?

* R = 255, G = 255, B =51

1. How can you make purple?

* R = 153, G = 0, B = 255

1. How can you make white?

* R = 255, G = 255, B = 255

1. How can you make dark gray?

* R = 102, G = 102, B = 102

A3

1. Row index for the top left corner?

* 0

1. Column index for the top left corner?

* 0

1. The width is 640. What is the right most column index?

* 639

1. The height is 480. What is the bottom most row index?

* 479

1. Does the row index increase from left to right or top to bottom?

* Top to bottom

1. Does the column index increase from left to right or top to bottom?

* Left to right

1. Set zoom 500%. Can you see squares of color? This is called pixilation. Pixilation means displaying a picture so magnified that the individual pixels look like the small squares.

* yes