

Homework 1

Quiz date: beginning of class, Thursday, September 10.

1. Convert the following; fill in n with the proper value. Show your work.

(a) $52_{10} = n_2$

(b) $522_{10} = n_2$

(c) $1000001001_2 = n_{10}$

(d) $111_{10} = n_2$

(e) $111_{16} = n_{10}$

(f) $12D4_{16} = n_{10}$

(g) $ABC_{16} = n_2$

(h) $1234_{10} = n_8$

(i) $1234_7 = n_{10}$

2. Give a reasonable hex value for a very dark green color.

3. Describe the approximate color for each of the following. Explain.

(a) #AAAAAA

(b) #BC00CB

4. When referring to computer storage, **exactly** how many bytes are there in 3.5MB?

5. A phone network runs at 120Mbps. How many seconds will it take to transfer an image of size 63MB?