

AP Computer Science Principles

Ticket Out The Door

Set 5: Storing Colors

Name \_\_\_\_\_ Period \_\_\_\_\_

**Skill 5.01 Exercise 1**

The actual number of bits reserved for each color is 8.

How many bytes are reserved for each color?

How many possible colors are there?

**Skill 5.02 Exercise 1**

For each binary color below (1) Write the RGB equivalent (2) Identify the color

11111111 00000000 11111111

10001100 00110011 11100011

**Skill 5.03 Exercise 1**

How many hexadecimal places are needed to represent the number 189910?

**Skill 5.03 Exercise 2**

For each hexadecimal color below (1) Write the RGB equivalent (2) Identify the color

#97CD65

#F496D9

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**Skill 5.04 Exercise 1**

For each RGB color below (1) Write the hexadecimal equivalent (2) identify the color

(142, 71, 185)

(134, 238, 88)