

Name: Alexandra Flores

Date: \_\_\_\_\_



**Inwood Early College for Health and Information Technologies**  
Career and Technical Education Department

**AP Computer Science Principles 1**

**Pixelated Pic Project**

**Graphic Organizer**

Pixel Color Description: Dusty Red

RGB Values: 179, 127, 120

Red Value: 179

Convert to Binary

$$\begin{array}{l} 179 \div 2 = 89 \text{ R1} \\ 89 \div 2 = 44 \text{ R1} \\ 44 \div 2 = 22 \text{ R0} \\ 22 \div 2 = 11 \text{ R0} \\ 11 \div 2 = 5 \text{ R1} \\ 5 \div 2 = 2 \text{ R1} \\ 2 \div 2 = 1 \text{ R0} \\ 1 \div 2 = 0 \text{ R1} \end{array}$$

Red Value in Binary:

1 0 1 1 0 0 1 1

Green Value: 127

Convert to Binary

$$\begin{array}{l} 127 \div 2 = 63 \text{ R1} \\ 63 \div 2 = 31 \text{ R1} \\ 31 \div 2 = 15 \text{ R1} \\ 15 \div 2 = 7 \text{ R1} \\ 7 \div 2 = 3 \text{ R1} \\ 3 \div 2 = 1 \text{ R1} \\ 1 \div 2 = 0 \text{ R1} \end{array}$$

Green Value in Binary:

1 1 1 1 1 1 1 1

Blue Value: 120

Convert to Binary

$$\begin{array}{l} 120 \div 2 = 60 \text{ R0} \\ 60 \div 2 = 30 \text{ R0} \\ 30 \div 2 = 15 \text{ R0} \\ 15 \div 2 = 7 \text{ R1} \\ 7 \div 2 = 3 \text{ R1} \\ 3 \div 2 = 1 \text{ R1} \\ 1 \div 2 = 0 \text{ R1} \end{array}$$

Blue Value in Binary:

1 1 1 1 0 0 0 0

Review Check: All Correct.

Pixel color bitstring:

1 0 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0