Binary Worksheet

In this activity you will be converting base-10 numbers into base-2 (binary) numbers. In 5-bit notation (the notation we are using) the first number = 16, the second number = 8, the third number = 4, the fourth number = 2, and the fifth number = 1. For example, the 10110 would equal 16 + 0 + 4 + 2 + 0, therefore 10110 = 22. Each box represents a bit. The first 5 boxes are the 5-bit numbers on the left, the second 5 boxes are the 5-bit numbers on the right. I have given you the first number as an example.

Color the 0’s yellow and the 1’s black

Color the 0’s white and the 1’s red

The Picture above is a: ______________________________
The Picture above is a: ______________________________

Color the 0’s white and the 1’s black

The Picture above is a: ______________________________
Teacher Instructions

Estimated Time: 25 min

Purpose: Understand Binary

Instructions: Give some background on binary, we have a powerpoint to help. They don't need to understand it to do the worksheet though but it helps.

Answers: Smiley Face, Beats Logo, Spider