AP Computer Science Principles
Ticket Out the Door
Set 1: Binary Numbers

Name _____ Period _____

Skill 1.01 Exercise 1
Following this link to the virtual Flippy-Do. https://hpluska.github.io/APCompSciPrinciples/labs/2021/DigitalInformation/BinaryNumbers/FlippyDo/
Use the flippy do to figure out the decimal equivalent of the following binary numbers: 1110, 110011, 10001
Use the Flippy-Do to figure out the binary equivalent of the following decimal numbers: 5, 7, 13

Skill 1.02 Exercise 1
Without the aid of the Flippy-Do, convert each of the following decimal numbers to binary, 11, 25, 53

Skill 1.03 Exercise 1
Indicate whether the binary number is even or odd
100010000001 101010101010 100000000000 101010101111 111111111000

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Skill 1.03 Exercise 2
Indicate the largest number that could be represented by each of the following bits.
(a) 5 (b) 4 (c) 6

Skill 1.03 Exercise 3
Without using the Flippy-Do, what are each of the following in decimal?
(a) 111 (b) 1111 (c) 11111 (d) 111111