

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

**Skill 1.01 Exercise 1**

Following this link to the virtual Flippy-Do.

<https://flippydo.hpluska.repl.co/>

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

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

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

<b>Skill 1.03 Exercise 2</b>
------------------------------

Indicate the largest number that could be represented by each of the following bits.
--

- |       |
|-------|
| (a) 5 |
| (b) 4 |
| (c) 6 |

<b>Skill 1.03 Exercise 3</b>
------------------------------

Without using the Flippy-Do, what are each of the following in decimal?
---

- |            |
|------------|
| (a) 111    |
| (b) 1111   |
| (c) 11111  |
| (d) 111111 |