

## Place Value Used in Real Life: Part 2

### What You Will Need:

- Computer, phone, or any device with internet access
- Flipgrid account
- This is Part 2 of the lesson on how computers parts communicate. This also includes a history of place value. You should spend about 45 minutes on the first part of this lesson, and then another 45 minutes on the history part of the lesson.
- Khan Academy account

### Review

Review this video that explains about patterns in binary numbers. We noted these patterns in Part 1.

[Click here to see a review that will help you.](#)

The Lesson	Practice	Share Your Thoughts
<p>Watch this video to learn how computers use base 2, or binary numbers to communicate. Eight place values is called a BIT, which stands for BInary unit. Note the vocabulary words: Pixel, Resolution, ASCII, Bitmap, Bit, and Binary. Then complete the worksheet on ASCII.</p> <p><a href="#">Click here to view the lesson.</a></p> <p><a href="#">Youtube Version</a></p>	<p>Complete the ASCII and Bitmap worksheets.</p> <p><a href="#">Click here to do some practice.</a></p> <p><a href="#">Bitmap Worksheet</a></p>	<p><a href="#">Click here to tell me your thoughts and answer my questions</a></p> <p>Go to the Flipgrid prompt. Use your Flipgrid ID, and respond to the prompt: Explain the relationship between the base number and place values? For example, could you have place value without having a base number?</p> <p>If you don't have an ID, use 12345.</p>

### Deep Dive

Part 1 of this lesson included a youtube video called Binary! We pointed out that the video referred to a binary number as "one hundred" and we said this was a mistake. The author of that video had researched how to read binary numbers and there was no official consensus. View this video to see what he learned.

[Click Here](#)

### Assessment:

[Click here to complete an activity that will show me if you met my objective.](#)

Watch the first part of Dr. Lee Stiff explaining the history of place value and number bases.  
[History of Bases and Place Value: Part 1](#)

[History of Bases and Place Value: Part 2](#)

This is the second part of Dr. Lee Stiff's History of Place value and Number Bases. At the end he sings a parody he wrote about number bases.

Choose one of the number systems that Dr. Stiff talked about and try to write a number in that system.