

Making Multiple Versions of Flats-Longs-Units to Teach Numbers and their Operations

By [Swati Sircar](#) | Feb 5, 2020

2D base 10 blocks, popularly known as Flats-Longs-Units (FLU) are the most useful of all manipulatives for numbers. They can be extended to decimals through fractions as well as to algebra tiles.

These pre-grouped proportional manipulatives can be used to introduce numbers up to 999 and the four operations - addition, subtraction, multiplication and division. In fact, they can be used to understand the division algorithm to find the square root!

Three versions are suggested:


Big FLU - out of cardboard boxes for younger children in Class 1-2


Small FLU - out of square grid notebooks for older children in Class 3-5

Decimal FLU - out of A4 size poster/certificate with no lines in any of the pieces

the thousand part - A thousand can be added to the Small FLU set - Check [thousand.pdf](#) for details.

Upload file:

 [flu.pdf](#)

 [decimal-flu.pdf](#)

 [thousand.pdf](#)

Category: Classroom Resources

Subject: Mathematics

Board: All boards

Grade/Standard: Class 3-5
Class 6-8

License: CC BY-NC-SA

Source URL: <http://teachersofindia.org/en/article/making-multiple-versions-flats-longs-units-teach-numbers-and-their-operations>