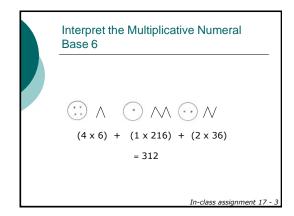


Multiplicative Numeration System

- Need a base and symbols for powers of the base. Use base 6 symbols from slide 3
- Need multipliers use circles with dots to represent how many of that base symbol
- Pairs of symbols multipliers and base symbol
- o Order of pairs not important
- Evaluate by multiplying the pairs and adding the results

No in-class assignment problem

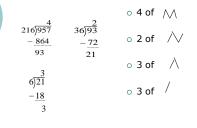


Write a Base 6 Multiplicative Numeral

- Find the highest power of the base that is less than or equal to the given number.
- Continue as in writing an additive numeral but use a base symbol only once proceeded by a multiplier with the number of dots representing how many of the symbols there should be.

No in-class assignment problem

957 as a Base 6 Multiplicative Numeral



In-class Assignment 17 - 3

Another Numeral for 957 (Base 6)



Note: The pairs can be in any order

In-class Assignment 17 - 3

Positional (Place-Value) System

- Need a base but no base symbols
- Multipliers in valued positions
 - Highest power at the extreme left
 - Lowest power at the extreme right
- Order very important
- Need a place holder (zero)
- Evaluate by multiplying the multiplier (face value) and the value of the position (place value).

No in-class assignment problem

Numeration Systems

