Order Up:
Using Number Lines to Connect and Access Number Concepts across Grade Levels

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A Need to Work across Grade Levels

- My students can’t master their standards because they aren’t prepared.
- My students can’t master their standards because they have bad habits.
- My school/district has limited applicable PD that involves all math teachers.
- I don’t need to know that. It isn’t in my standards.
A Simple *(starter)* Solution

- Hold in-house PD involving large number lines
- Prepare sets of numbers and numeric expressions that demonstrate concept development across grade levels
Color order & Directions

K-2:  white  red  green
3-5:  white  violet  blue
6-8:  white  yellow  violet  blue

Shuffle the cards then pass them out, one at a time, until every person has at least one card. Then take turns placing the cards according to the color order. YOU MAY ONLY TOUCH YOUR CARDS.
**Discussion:**

What do you notice? Develop a list of at least three conjectures that you can make from your numbers.
Check the number line, making corrections as needed.

What do you notice? Develop a list of at least three conjectures that you can make from your numbers.
Whole Class Discussion:

- How do these numbers directly relate to your grade-level standards either directly or indirectly?
- What vocabulary words are important to fully understanding the number sets?
- How does the number line help you understand relationships between number and operation?