## Adding Sticks

## Challenges

1. What is the largest number you can make with these sticks? What is the smallest number? Can you make every number in between?
2. Are there any numbers you can make with different possible sticks?
3. What is the next largest sized stick you need? What is the largest number you can make using all five of these measuring sticks?
4. Can you make every number between 1 and the number you got from Challenge 3? Explain your answer?
5. If this pattern continues, how many sticks would you need to make all the number 1 to 1000 . What sizes will all those sticks be?


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7=\mathrm{G} Y \mathrm{R}
$$



