

## The Super Sieve

Name \_\_\_\_\_ Date \_\_\_\_\_

You need your dry-erase marker. Use 100 chart.

You will follow the steps below, and the numbers you have left will be prime numbers.

1. Cross out number 1 since it is neither prime nor composite.
2. Circle number 2 because it is the first prime number since it only has factors of one and itself.
3. Cross out every multiple of 2 starting with 4 and continuing through 100. They are all composite numbers because 2 is a factor of each, and that gives them more than two factors.
4. Circle the number 3 because it is the second prime number since it only has factors of one and itself.
5. Cross out every multiple of 3 starting with the number 6 and continuing through 99. The even numbers will already be gone.
6. Circle the number 5. It is a prime number since it only has factors of one and itself.
7. Cross out all remaining multiples of 5. Some will already be gone.
8. Circle the number 7. It is prime because it only has factors of one and itself.
9. Remove all remaining multiples of 7. Most multiples of 7 will already be gone.
10. Circle the numbers you have not crossed out in any step, and write them in a list below. Be sure to name them in order least to greatest. If you have followed all of the steps correctly, these numbers will all be prime.

