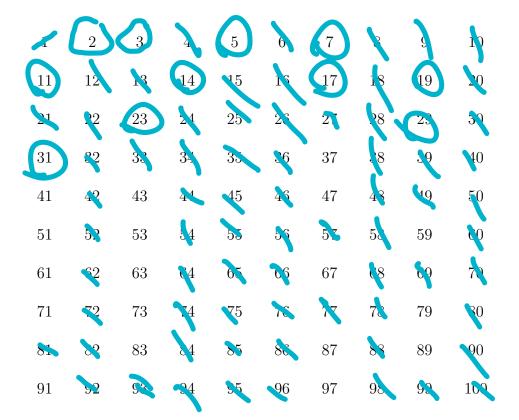
2.3 Prime Numbers

M302

1. The Sieve of Eratosthenes

- (a) Cross out 1 in the array below.
- (b) The number 2 is prime. Circle it, and cross out all multiples of 2.
- (c) The number 3 is prime. Circle it, and cross out all multiples of 3.
- (d) Continue this process until you have circled or crossed out every number.



2. Determine whether each number is prime. If not, find its prime factorization.

(a) 147

(b) 97

 (\mathbf{c})

318