## Math Circle Explorations: Session 3

Problem 2. We call an infinite set "countable" ifit can be counted, that is we can arrange all the elements in an order and say $a_{1}$ is the first element, $a_{2}$ is the second element, ... and so on (this list should exhaust all elements!). Consider all subsets (that is the power set) of natural numbers N . Is it countable?

