

# Pokémath : Homework 1



## Pokémon<sup>®</sup> Problems

1) Consider the Machop in my bag in the image below. I have numbered them 1-7. Our universal set can be written  $\mathcal{U} = \{1, 2, 3, 4, 5, 6, 7\}$ . Write the **list notation** for the following sets:

- a) The set of shiny Machop (the ones with three little stars under the letters CP), call it S.
- b) The set of favorite Machop (the ones with the big yellow star in the top right corner), call it F.
- c) The set of Machop with CP (Combat Power) of 500 or more, call it H.
- d)  $S \cap F$
- e)  $F \cup H$
- f)  $S^c$

2) My Pokémon<sup>®</sup> bag currently contains 652 Pokémon<sup>®</sup>. Write the set of all the Pokémon<sup>®</sup> in my bag using set builder notation. (There are many possible answers, get creative using set builder notation!)

3) Are any of S, F, or H subsets of each other? Why or why not?

