

CSC 2259 Session 6 Worksheet 02/16/2020	John Brasher SI Sessions: Sundays & Mondays @ 6:30 – 8:00 PM [PFT 1212] Office Hours: Mondays & Fridays 12:30 – 2:30 PM
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1) Express the following English sentences in set notation two different ways.

a. I have everything I want

b. I do not have everything I want

c. I have some things I want

d. I have nothing I want

e. I want nothing I have

2) Let  $n = 7$ , the maximum size of  $W$ . What is the  $\#((H, W)\text{-pairs such that } H = W)$ ?

3) Let  $|H| = 7$  and  $|H^c| = 4$ . What is the  $\#(\text{subsets not contained in } H)$ ? What does this mean?

4) Let  $n = 5$ , the maximum size of  $W$ . What is the  $\#((H, W)\text{-pairs such that } H \subseteq W)$ ?