

- 3) A, B, and C are sets where $A = \{a, b, c, h\}$, $B = \{c, d, e, f, h\}$, and $C = \{a, e, f, g, h\}$. Use the following information for your calculations.

$$|A| = 4, |B| = 5, |C| = 5, |A \cap B| = 2, |A \cap C| = 2, |B \cap C| = 3, \\ |A \cap B \cap C| = 1$$

- a. #(Elements belonging to exactly 2 of these sets)
- b. #(Elements belonging to at least 2 of these sets)
- c. #(Elements belonging to all 3 of these sets)
- d. $|A \cup B|$
- e. $|A \cup B \cup C|$

- 4) What is DeMorgan's Law?