Name: _____   Date: _____

QUIZ – SETS

1. (5%) Standard deviation measures the _____ of the data.

2. (10%) List the elements of the set $\{x | 2 \leq x < 7, x \in N\}$ _____

3. (10%) Given set $\{A, B, C\}$, List all its possible subsets:

4. (5%) Given the set $\{3, 7, B, A\}$. <u>How many</u> possible proper subsets does is have?

5. (20%) Given the sets $A = \{5, 8, 12, 16\}$, $B = \{-2, 7, 12, 22, 123\}$ and $C = \{0, 8, 9, 12, 16, 24, 23, 123\}$ <u>Find:</u>
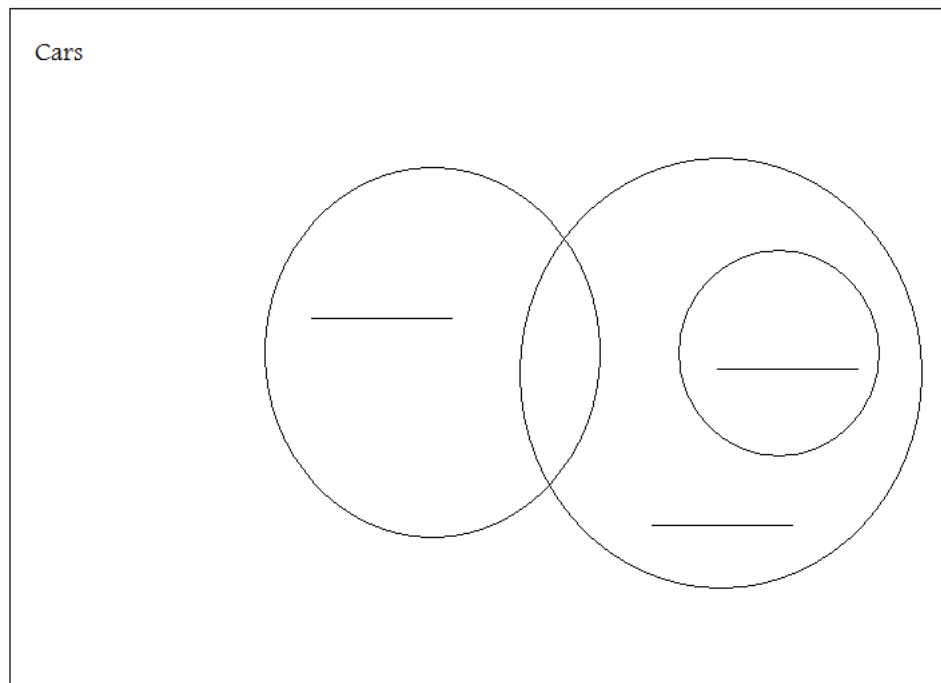
    (4%) $A \cup B =$ (4%) $B \cap C =$

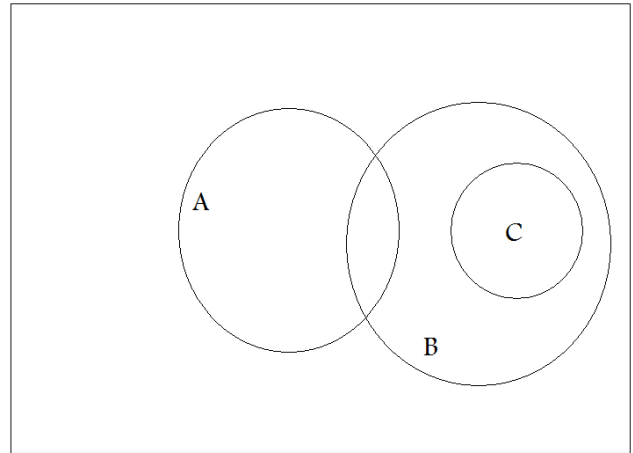   (4%) $A \cap C =$ (4%) $A \cap B \cap C =$

    (4%) $(A \cap B') \cup C =$

6. (15%) Given the following Venn Diagram describing cars. Fill the blanks with possible subsets.

7. (10%) Given the Venn diagram, shade:

    a. (5%)$A \cap B$

    b. (5%) $B \cap C$

8. (25%) In a certain company with 60 workers there are three main sections. ID Section (I), Administration (A) and Finance (F).

5 workers work in all 3 sections
9 workers work in Administration only
7 workers work in Finance only
20 workers work in ID
10 workers work in ID and Finance only
11 workers work in Administration and Finance only
2 workers work in Administration and ID only

    a. (7%) Organize this info in the following Venn Diagram
    b. (9%) Find the number of workers who work in ID only

    c. (9%)many workers do not work in any of the 3 sections