

Name : _____

Drawing Venn Diagram - Without Universal Set

Draw: S3

Draw Venn diagram based on the data provided and answer the questions that follow.

- 1) A car dealer in Paoli has 88 vehicles that are black in color, 65 hybrid cars and 103 sedans.
- 17 sedans are black in color but not of hybrid type;
 - 20 hybrid vehicles are black in color but not of sedan type;
 - 11 sedans are of hybrid type but not in black color; and
 - 6 sedans are of the hybrid type and are black in color.

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a) How many sedans are _____

b) Excluding sedans, how many vehicles are black in color? _____

c) Find the number of sedans that are not black in color. _____

d) How many sedans are not black in color? _____

e) List the number of black vehicles that do not belong to the hybrid category. _____

f) How many hybrid vehicles do not come under the category of sedans? _____

g) Write down the total number of vehicles stocked by the car dealer. _____

h) Find the number of black vehicles that belong to the hybrid category. _____

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Answer Key

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Black color **Hybrids**

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- a) How many sedans are black in color? **23 sedans**
- b) Excluding sedans, how many vehicles are black in color? **93 vehicles**
- c) Find the number of sedans that are not black in color. **86 sedans**
- d) How many sedans are of hybrid type? **11 sedans**
- e) List the number of black vehicles that do not belong to the hybrid category. **62 black vehicles**
- f) How many hybrid vehicles do not come under the category of sedans? **48 hybrid vehicles**
- g) Write down the total number of vehicles stocked by the car dealer. **196 vehicles**
- h) Find the number of black vehicles that belong to the hybrid category. **26 black vehicles**