

Name : \_\_\_\_\_

## Drawing Venn Diagram - With Universal Set

Draw: S3

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

- 1) A survey was conducted in Westpoint to find the number of pet owners in the neighborhood. As per the survey -
- 31 families have only dogs as pets;
  - 34 families have only cats as pets;
  - 15 families keep only fish as pets;
  - 22 families have pet cats and dogs but not fish;
  - 7 families keep fish and also have pet cats but not dogs;
  - 12 families keep fish and also have pet dogs but not cats;
  - 10 families keep cats, dogs, and fish as pets; and
  - 6 families do not keep any pets.

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- a) How many families have only dogs as pets? \_\_\_\_\_
- b) Write down the number of families that have only cats as pets? \_\_\_\_\_
- c) How many families in the neighborhood have only fish as pets? \_\_\_\_\_
- d) Find the number of families that have both cats and dogs as pets? \_\_\_\_\_
- e) Write down the number of families that keep fish as pets in their homes. \_\_\_\_\_
- f) Find the number of families in the Westpoint neighborhood that keep at least one of the three types of pets in their homes. \_\_\_\_\_
- g) How many families keep both, fish and pet cats in their homes? \_\_\_\_\_
- h) How many families keep at least two types of pets in their homes? \_\_\_\_\_