

Venn Diagrams

Leader



See and use a basic procedure for screening, counting, and classifying random samples.



You will need:

- Pencil
- Paper
- Assorted data



Do this:

- Students will need to examine and discuss Venn diagrams in reference to selecting and using the appropriate type for separating a collection of data.
- *Samples and Tasks* are on the Student Page.

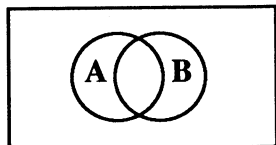


Student _____

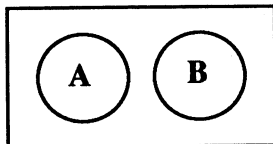


Do this:

- Sometimes, in order to sort out, count, or label some unclassified information, a chart called a Venn diagram can be helpful.
- These are some sample outlines of Venn diagrams:



I



II

- The circles are used like compartments in a box, to place together those items from an assortment that are alike in some certain way.
- The circles and their frame (the box) are equally important.

● **Task X:**

Let the assortment be the set of numbers: 0, 1, 2, 3, ..., 9.
 Let A be the circle in which all the *even* numbers are to be written.
 Let B be the circle in which the *odd* numbers are to be written.



1. Which diagram should be used, I or II? _____
2. Draw the diagram and write each number in the correct place.
3. How many numbers have you placed in circle A? _____
4. How many numbers have you placed in circle B? _____
5. How many numbers have you written in the frame, but not inside of circle A or circle B? _____

● **Task Y:**

Let the assortment be the numbers: 0, 1, 2, 3, ..., 15.
 Let A be the even numbers.
 Let B be the numbers with two digits.



1. Repeats steps 1 and 3.
2. Answer questions 3, 4, 5.



WHAT I FOUND