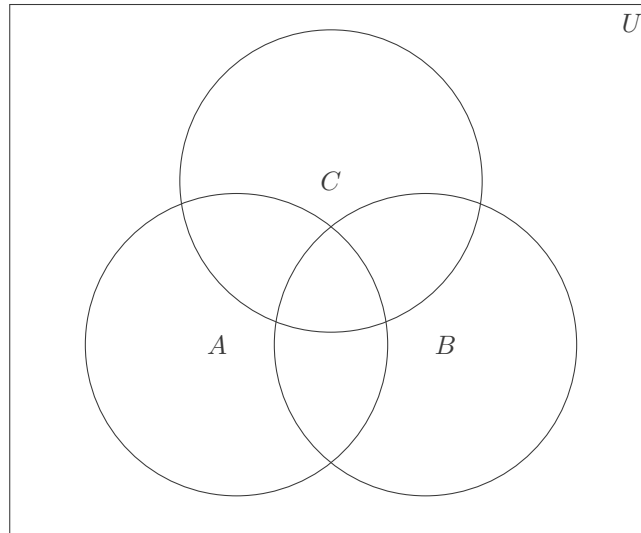


Venn Diagrams

Name: _____



1. *Consider the following data from a survey of 350 athletes.*

90 regularly take vitamin A.
88 regularly take vitamin B.
97 regularly take vitamin C.
53 regularly take vitamins A and B.
55 regularly take vitamin A and C.
57 regularly take vitamin B and C.
32 regularly take all three vitamins.

Use the Venn diagram (above) to help you organize the data.

How many of these athletes

- (a) take only vitamins A regularly?
- (b) take only one vitamin regularly?
- (c) take none of the three vitamins regularly?

2. A firm purchased three mailing lists from a consultant dealing in such lists. The price is 10 cents per **distinct name**. The first list contains 1500 names, the second 3300, and the third 2800. A computer check shows that the first and second lists contain 382 names in common, the first and third contain 417 names in common, the second and third contain 741 names in common, and 219 names occur on all three lists. How much should the firm pay for these lists.