# EXAMPLE 1

Chantal asked 36 people at a senior citizens' residence what types of movies they liked, with the results shown. She wants to use the data to answer these questions:

* How many people like mystery or comedy or both?
* How many people like mystery only or comedy only? Draw a Venn diagram to show the data.

|  |  |
| --- | --- |
| Type | Number of People Who Like |
| Mystery | 20 |
| Comedy | 15 |
| Neither | 6 |

# PRACTICE 1

Giselle asked 35 people what flowers they had bought for Mother's Day, with these results.

a) How many people bought roses and geraniums?

b) How many people bought only roses?

c) Draw a Venn diagram to show the data.

|  |  |
| --- | --- |
| Flower | Number of People Asked |
| Roses | 17 |
| Geraniums | 17 |
| Neither | 6 |

# PRACTICE 2

There are 90 guests at a winter resort in Manitoba. Of these guests, 64 plan to go dog sledding and 51 plan to go snowshoeing. There are 16 guests who do not plan to do either activity.

1. How many guests plan to do both activities?
2. How many guests plan to go dog sledding but not snowshoeing?
3. How many guests plan to go snowshoeing but not dog sledding?

# PRACTICE 3

In all, 940 students attend Mapleton Veterinary College. Of these, 580 have a dog, 480 have a cat, and 40 have neither kind of pet. Show in a Venn diagram how many students have:

1. A cat and a dog
2. A cat but not a dog
3. A dog but not a cat
4. Explain how you got your answer