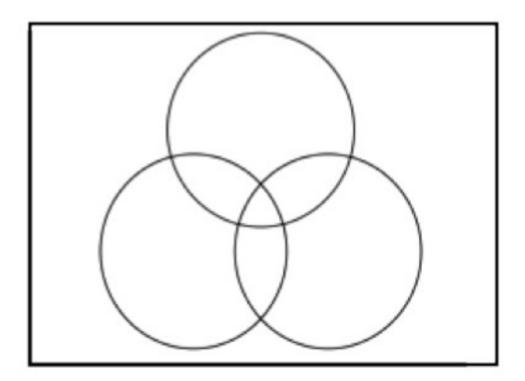
Use a Venn Diagram to summarize and analyze the data in each problem. Then use it to answer the questions.

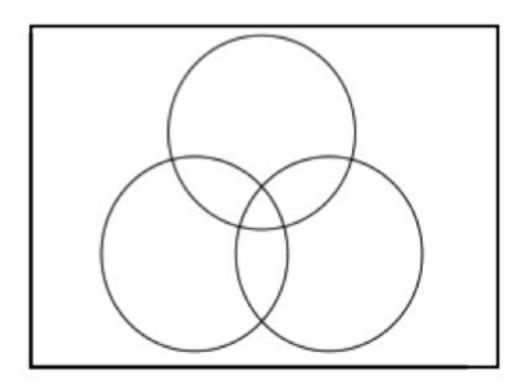
- 1. Toward the middle of the season, peaches for canning tend to come in three types: early, late and extra late, depending on the expected date of ripening. During one week, the following data were recorded at a small peach receiving station.
 - 16 trucks were dispatched carrying early peaches
 - 36 trucks had late peaches
 - 33 trucks had extra late peaches
 - 13 trucks had early and late peaches
 - 15 trucks had late and extra late peaches
 - 1 truck had early and extra late peaches
 - no trucks had all three types



Determine the number of trucks:

- (a) carrying only late peaches
- (b) carrying only one variety of peaches
- (c) carrying exactly two varieties of peaches
- (d) Determine the total number of trucks.

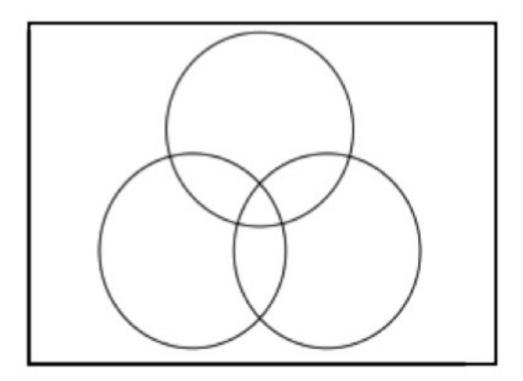
- 2. A group of 195 people were polled to see if they watched certain TV programs, which we will refer to as programs A, B and C. The results were:
 - 39 watch A
 - 90 watch B
 - 51 watch C
 - 10 watch all three
 - 16 watch both B and C
 - 30 watch C only
 - 14 watch both A and B



Determine how many:

- (a) did not watch any of the three shows.
- (b) watch at least two of these programs.
- (c) watch either B or C.
- (d) watch both A and C.

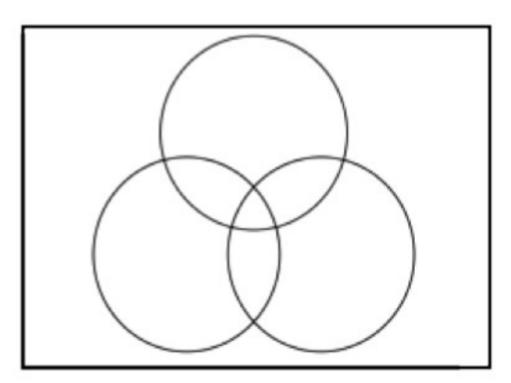
- 3. A survey of 100 Atlanta residents was taken to determine how well they liked the Braves, the Falcons and the Hawks. It was found that:
 - 63 liked the Braves
 - 62 did not like the Falcons
 - 18 did not like the Falcons or the Hawks
 - 30 liked the Falcons and the Braves
 - 28 did not like the Hawks
 - 20 like all three
 - 15 did not like any of the three



Determine how many like:

- (a) only the Hawks
- (b) both the Hawks and the Falcons
- (c) at least two of the three

- 4. Five hundred men were asked at which of three grocery stores (Kroger, Publix, Costco) they shopped. The results were as follows:
 - 230 shop at Kroger
 - 115 shop at Publix
 - 170 shop at Costco
 - 5 shop at all three
 - 20 shop at Kroger and Costco
 - 15 shop at Costco and Publix
 - 35 shop at Kroger and Publix

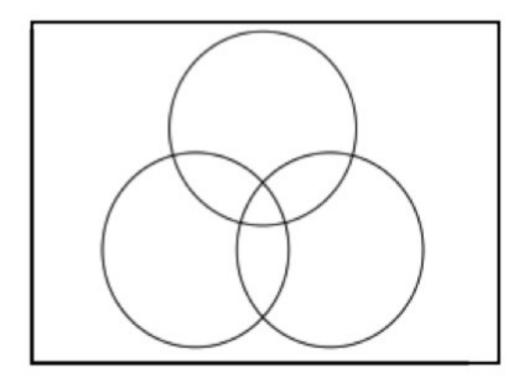


Determine how many of these men shop at:

- (a) Kroger only
- (b) Costco and Publix only
- (c) Kroger and Costco
- (d) either Costco or Publix
- (e) exactly one of the three stores
- (f) at least two of the three stores
- (g) none of the three stores

5. A survey of 180 people showed that:

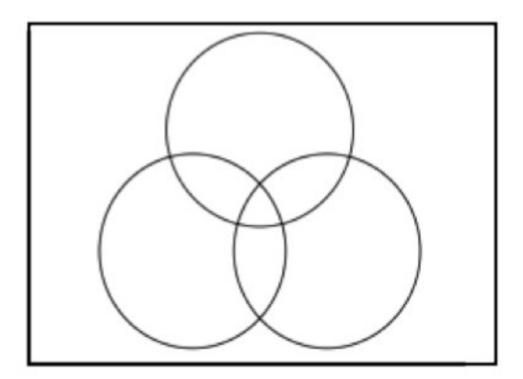
- 60 like hamburgers
- 95 like chicken
- 120 like pizza
- 55 like pizza but not chicken
- 45 like hamburgers and pizza
- 10 like hamburgers only
- 30 like all three



Determine how many:

- (a) do not like any of the three.
- (b) like chicken only
- (c) like at least one of the three
- (d) like hamburgers and chicken
- (e) like hamburgers and chicken but not pizza
- (f) like exactly one of the three
- (g) like either pizza or chicken
- (h) like exactly two of the three

- 6. In a certain math course, a survey was taken. It showed that:
 - 450 passed the course
 - 10 of those who failed still liked the course
 - 25 of those who failed signed up for another math course
 - 55 of those who liked the course signed up for another math course
 - 60 of those who passed the course signed up for another math course
 - 350 of those who passed the course liked it
 - 300 of those who passed the course liked it but didn't sign up for another course
 - 130 didn't like the course



Determine how many:

- (a) were surveyed
- (b) liked the course
- (c) didn't pass the course
- (d) of those who failed the course, disliked it and didn't sign up for another math course
- (e) of those who did not like the course passed it
- (f) passed the course, liked it and signed up for another math course