

## Creating Two Way Tables from Given Questionnaire

1. A group of 150 students were asked about their favorite sports (Football, Basketball, and Tennis). Some students like to play sports, while others prefer to watch. The results are as follows:

75 students like Football.

40 students like Basketball.

30 students like Tennis.

50 students like to play sports.

60 students prefer to watch sports.

(a) Create a two-way table to represent this data.

(b) How many students like Football and prefer to watch sports?

2. In a survey of 200 people, individuals were asked about their online shopping habits (Electronics, Clothing, and Home Decor). The results are as follows:

80 people shop for Electronics.

60 people shop for Clothing.

40 people shop for Home Decor.

30 people shop for both Electronics and Clothing.

20 people shop for Electronics and Home Decor.

15 people shop for Clothing and Home Decor.

(a) Create a two-way table to represent this data.

(b) How many people shop for Electronics but not for Clothing or Home Decor?

3. In a movie survey, 120 people were asked about their favorite movie genres (Action, Comedy, and Drama). The results are as follows:

40 people like Action movies.

50 people like Comedy movies.

30 people like Drama movies.

25 people like both Action and Comedy movies.

15 people like both Comedy and Drama movies.

10 people like all three genres.

(a) Create a two-way table to represent this data.

(b) How many people like only Action movies?

4. A survey of 300 households asked about their car ownership status (One Car, Two Cars, and No Car). The results are as follows:

120 households own One Car.

100 households own Two Cars.

80 households do not own any car.

60 households own One Car and Two Cars.

30 households own One Car and do not own any car.

(a) Create a two-way table to represent this data.

(b) How many households own exactly Two Cars but not One Car?

5. A restaurant survey gathered data on customers' preferred cuisines (Italian, Mexican, and Chinese) and their choice of meal (Lunch or Dinner). The results are as follows:

90 customers prefer Italian cuisine.

60 customers prefer Mexican cuisine.

70 customers prefer Chinese cuisine.

40 customers choose Lunch.

70 customers choose Dinner.

30 customers prefer Italian cuisine and choose Lunch.

(a) Create a two-way table to represent this data.

(b) How many customers prefer Chinese cuisine and choose Dinner?

6. In a survey of 200 people, participants were asked about their online streaming preferences (Netflix, Amazon Prime Video, and Hulu) and whether they primarily watch movies or TV shows. The results are as follows:

100 people prefer Netflix.

50 people prefer Amazon Prime Video.

30 people prefer Hulu.

40 people primarily watch movies.

70 people primarily watch TV shows.

25 people prefer Netflix and primarily watch movies.

(a) Create a two-way table to represent this data.

(b) How many people prefer Hulu and primarily watch TV shows?