

## Probability: Contingency Tables

### Objectives:

- Finding probability using tables
- Making tables

### Exercises:

1. Use the information in the table to answer the following questions. State the probabilities as fractions and round to the nearest hundredth.


- a. What is the probability someone chosen at random is a Democrat?
  - b. What is the probability someone chosen at random is a Democrat who voted?
  - c. What is the probability someone chosen at random did not vote and is a Republican?
  - d. What is the probability someone chosen at random did not vote or is a Republican?
  - e. What is the probability someone chosen at random is a Republican or is a Democrat?
  - f. Given that someone is a Democrat, what is the probability they did not vote?
2. Use the information in the table to answer the following questions. State the probabilities as fractions and round to the nearest hundredth.


- a. What is the probability someone has Facebook?
- b. What is the probability someone does not have any of the accounts?
- c. What is the probability someone has Facebook Instagram?

d. What is the probability someone has Facebook Instagram?

e.

**Answers:**

1a. —

1b. —

1c. —

1d. —

1e.

1f. —

2a. —

2b. —

2c. —

2d. —

2e. —

