

1 Lesson 1 Example 2

Many examples in this book will be based on a standard deck of 52 playing cards, consisting of 13 cards of each suit. Familiarize yourself with the terminology. Suppose you draw one card from a shuffled deck of cards.

- What is the probability that the card is a heart?
- What is the probability that the card is an ace?
- What is the probability that the card is a face card (also known as a “court card”)?

2 Answer

1. **Probability that the card is a heart:**

$$\text{Probability} = \frac{13}{52} = \frac{1}{4}$$

2. **Probability that the card is an ace:**

$$\text{Probability} = \frac{4}{52} = \frac{1}{13}$$

3. **Probability that the card is a face card (also known as a “court card”):**

$$\text{Probability} = \frac{12}{52} = \frac{3}{13}$$