

Write answers as reduced fractions.

1. Write the probability of each event below:
 - a. You will have a conversation with someone today
 - b. The sun will set tonight
 - c. You will flip heads on a coin
 - d. A cat will fly by itself
 - e. You will watch a movie tonight
 - f. You will read a whole novel in one hour

2. A coin is tossed and a die is rolled at the same time.
 - a. What is the probability of throwing a head and rolling a 1, 2, or 3?
 - b. What is the probability of rolling a tail and an even number?
 - c. What is the probability of rolling a head a number larger than four?

3. A card is drawn from a normal 52 card deck. The card number and suit are noted then the card is replaced in the deck and another card is drawn. What is the probability that:
 - a. The first card was a queen and the second was a ten?
 - b. The first card was the queen of hearts and the second card was an eight?
 - c. Both cards were jacks?
 - d. Both cards were not face cards?
 - e. The first card was a five of spades and the second was the ace of hearts?

4. Three blue balls and one red ball are placed in a box. A ball is drawn and noted and then replaced and the second ball is drawn. What is the probability that:
 - a. Two blue balls are removed?
 - b. One red ball and one blue ball are removed?
 - c. No blue balls are removed?

