

3. Pre-season predictions are being made for the NFL. One commentator is predicting which teams will make the playoffs. According to her, the Seahawks have a 42% chance, the odds in favor of the 49ers making the playoffs is 4:5, and the odds against the Vikings is 11:9

a. Which team is most likely to make the playoffs?

b. What are the odds in favor of the Seahawks making the playoffs (in lowest terms)?

4. A single card is drawn from a standard deck of cards. Use the formula to find the probability.

a. $P(\text{Jack U Red card})$

b. Are drawing a Jack and drawing a red card mutually exclusive? Explain how you know from you work in part a.

5. In a Lord Byng foods class, 81% of students like baking, 26% of students like cleaning dishes and 14% of students don't like baking or cleaning the dishes (and might want to consider a different elective...)

a. Draw a Venn Diagram (and fill it in as you go)

b. Find the probability a student chosen at random likes baking or cleaning dishes

c. Find the probability a student chosen at random likes baking and cleaning dishes

d. Find the probability a student chosen at random only likes cleaning dishes (...weird)

