Act. #15

Odds Worksheet

1. A single coin is tossed.

a) What is the probability of tossing a head?

b) What are the odds of tossing a head?

c) What are the odds of tossing a tail?

2. Mel has 5 quarters and six dimes in his pocket. He pulls out a coin.

a) What are the odds in favour of the coin being a quarter?

b) What are the odds in favour of the coin being a dime?

3. Suppose you have a bag with 3 white balls, 7 green balls and 5 red balls. You randomly select one.

a) What are the odds of selecting a red ball?

b) What are the odds of not selecting a red ball?

4. You roll a die.

a) What are the odds of rolling a number greater than 3?

b) What are the odds of rolling a multiple of 2?

c) What are the odds of rolling a number that is not a 4?

d) What are the odds of rolling a number divisible by 3?

5. If the probability of an event occurring is 2/3, what are the odds of the event occurring?

6. If the probability of an event occurring is 2/7, what are the odds of the even occurring?

7. If the odds in favor of an event occurring are 7:5, what is the probability of the event occurring?

8. If the odds against an event occurring are 9:14, what is the probability of the event occurring?

9. Justin places a bet on the Giants to win the Superbowl. The odds are 2:3.

a) Are the Giants expected to win? Why or why not?

b) Find P(Giants win) =

c) If Justin's bet is $20, how much would he win if the Giants won?

10. Zack places a bet on the Canucks to make it to the 4^{th} round of playoffs. The probability of that happening according to ProLine is 4/5.

a) Are the Canucks expected to make it to the 4^{th} round? Why or why not?

b) What are the odds of the Canucks making it to the 4^{th} round?

c) If Zack's bet is $15, how much would he win if the Canucks make it to the 4^{th} round?