Name: _____

Course & Section:_____

Electronic copies of this homework are located in D2L.

Probability Post Class Activity

Part 1

Watch the Video: Probability Post Class Part 1 (https://www.youtube.com/watch?v=T2eIGYtbS8g)

1. Assuming the wheel is fair, what is the probability of getting any one specific number? Use fraction notation (e.g.1/20).
   a. $\frac{1}{38}$
   b. $\frac{37}{38}$
   c. $\frac{18}{38}$
   d. $\frac{19}{38}$

Part 2

Watch the Video: Probability Post Class Part 2 (https://www.youtube.com/watch?v=SgRDBlTSGYA)

A Roulette wheel has 18 Red, 18 Black and 2 green slots.

1. What is the probability of NOT getting a 15?
   a. $\frac{1}{38}$
   b. $\frac{37}{38}$
   c. $\frac{18}{38}$
   d. $\frac{19}{38}$

2. Use fraction notation (e.g.1/20).
   a. $\frac{1}{38}$
   b. $\frac{37}{38}$
   c. $\frac{18}{38}$
   d. $\frac{19}{38}$

Part 3

Watch the Video: Probability Post Class Part 3 (https://www.youtube.com/watch?v=GcjQn_XssCI)

1. Suppose you bet on 15. You continue to play, always betting on 15. What do you expect to happen?
   a. Never win
   b. Win ½ of the time
   c. Win 2-3 times
   d. Always win

Part 4

Watch the Video: Probability Post Class Part 4 (https://www.youtube.com/watch?v=J12KeM0ZLgM)

1. What is the probability of getting a red number?
    a. $\frac{1}{38}$
    b. $\frac{37}{38}$
    c. $\frac{18}{38}$
    d. $\frac{19}{38}$

Part 5

Watch the Video: Probability Post Class Part 5 (https://www.youtube.com/watch?v=wd6-P8XXOqk)

1. What is the probability of getting a black number?
    a. $\frac{1}{38}$
    b. $\frac{37}{38}$
    c. $\frac{18}{38}$
    d. $\frac{19}{38}$
    e.
2. Is it the same as the probability of not getting a red number?
    a. Yes
    b. No
    c. Other:_____

Part 6

Watch the Video: Probability Post Class Part 6 (https://www.youtube.com/watch?v=IXrdxveEXpk)

1. Suppose you bet on red. You continue to play, always betting on red, 100 times. What do you expect to happen?
    a. No wins
    b. 2-3 wins
    c. 47 or 48 wins
    d. 100 wins

Part 7

Watch the Video: Probability Post Class Part 7 (https://www.youtube.com/watch?v=WrN8YKcTRaY)

1. Is the P(square or red) = P(square) + P(red)?
    a. Yes
    b. No

Part 8

Watch the Video: Probability Post Class Part 8 (https://www.youtube.com/watch?v=Gk9S-IKviD4)

1. Do A and B overlap?
    a. Yes

b. No

2. $P(A^c)$=
    a. 1
    b. .7
    c. .3
    d. .95

3. P(A or B) =
    a. .1
    b. .7
    c. .3
    d. .95

Probability Rules Handout

Visit to get a summary of the probability rules: http://goo.gl/NXSy1V

Part 9

Watch the Video: Probability Post Class Par t 9 (https://www.youtube.com/watch?v=bkYEZBEPPQM)