CS544\_HW2\_Escandon

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## Part 1 Probability

### a.

What is the probability that a randomly selected person in this survey will have a BMI ofabove 30?

1+1

## [1] 2

### b.

If a randomly selected person had a BMI of above 30, what is the probability of that person being in the age group 18-34 years?

1+1

## [1] 2

### c.

If a randomly selected person had a BMI of above 30, what is the probability of that person being in the age group 35-49 years?

### d.

If a randomly selected person had a BMI of above 30, what is the probability of that person being in the age group 50-64 years?

### e.

If a randomly selected person had a BMI of above 30, what is the probability of that person being in the 65 years & over?

## Part 2.

### a.

The sum of the rolls is greater than 10.

### b.

All the three rolls are identical.

### c.

Only two of the three rolls are identical.

### d.

None of the three rolls are identical

### e.

Only two of the three rolls are identical given that the sum of the rolls is greater than 10.

## Part 3.

Using a for loop or a while loop, write your own R function, sum\_of\_first\_N\_odd\_squares (n), that returns the sum of the squares of the first n odd numbers.

For example, if n = 5, the first five odd numbers are 1, 3, 5, 7, 9 and the required result is  
12 + 32 + 52 + 72 + 92 = 165.

### f.