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## Homework

Please answer the following questions. Be sure that you have downloaded the associated Excel file before beginning the homework. This lesson uses the **JulyRandomHW.xlsx** file.

*Remember that homework counts for 20% of your final grade. You are allowed **unlimited** attempts per question for homework problems. The main goal of homework is for you to practice and learn how to apply what you've learned in the content without worrying about getting the problem right the first time. Some homework problems may also provide hints or advice. Have fun!*

### M3L1HW1

4/4 points (graded)

Identify the following variables as discrete or continuous:

Number of aces drawn if 5 cards are drawn from a deck of cards

☒ discrete ✓

☐ continuous

Number of games won by Manchester United during 2018 Premier League Season

number of games won by Manchester United during 2016 Premier League season

☒ discrete ✓

☐ continuous

Market share during its first year for a new statin drug.

☐ discrete

☒ continuous ✓

Time you wait in line at TSA security

☐ discrete

☒ continuous ✓

Submit

✓ Correct (4/4 points)

M3L1HW2

4/4 points (graded)

Indicate if you think the following pairs of random variables are independent.

Price charged for a candy bar and number of candy bars sold

☐ independent

☒ not independent ✓

Return on Microsoft and Facebook stock during 2018

☐ independent

☒ not independent ✓

Games won by Manchester United and the Golden State Warriors in 2018

☒ independent ✓

☐ not independent

2018 return on the Dow Index and your child's score on an IQ test

☒ independent ✓

☐ not independent

Submit

✓ Correct (4/4 points)

### M3L1HW3

1/1 point (graded)

A company's market share is equally likely to assume any number between 20% and 80%. What is the chance their market share is greater than ( $>$ ) 60%?

☒ 1/3 chance that their market share is  $>$  60% ✓

☐ 2/3 chance that their market share is  $>$  60%

☐ 3/3 chance that their market share is  $>$  60%

Submit

✓ Correct (1/1 point)

