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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 **JulyBoxplotsHW.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!*

### M1L4HW1

1/1 point (graded)

This question uses the **Question 1 Worksheet**. Create a boxplot for the 1971 Draft Lottery and use this boxplot to answer the following question.

Has the problem with the 1970 Draft Lottery that Wayne discussed in this lesson appear to have been resolved?

☒ Yes ✓

☐ No

Submit

✓ Correct (1/1 point)

## M1L4HW2

3/3 points (graded)

This set of questions uses the **Question 2 Worksheet**. Given annual returns on REITS, bonds, and gold, create a boxplot to visualize the distribution of annual returns for REITS, gold, and bonds, and answer the following questions.

Which investment class has the largest median annual return?

☐ Gold

☒ REITS ✓

☐ Bonds

Which investment has the largest mean annual return?

☐ Gold

☒ REITS ✓☐ Bonds

Which investment's annual returns are the most positively skewed?

☒ Gold ✓☐ REITS☐ Bonds

✓ Correct (3/3 points)

## M1L4HW3

3/3 points (graded)

This set of questions uses the **Question 3 Worksheet**. You are given the math and reading scores for a representative sample of 5th graders in US, Finland, and South Korea. Construct a boxplot to summarize this data, and use the boxplot to answer the following questions.

Note: To make the legend showing which color is 'reading' and which color is 'math' appear, you may have to click (when inside boxplot) on the Design tab, and choose 'Legend' from the 'Add Chart Element' icon in the upper left-hand corner.

In which country does the typical student perform best on reading?

☐ US

☒ Finland ✓

☐ South Korea

The reading and math scores in each country are...

☐ Positively skewed

☒ Symmetric ✓

☐ Negatively skewed

True or False: Math scores in both the US and Finland are more variable than reading scores.

☒ True ✓

☐ False

Submit

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✓ Correct (3/3 points)

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