



Monmouth
COLLEGE

- Name: _____
 - Date: _____
 - Section: Section 1 (10:00 AM ~ 10:50 AM)
-

BUSI 201 Business Data Analysis

Quiz #2: Functions

Spring 2024

INSTRUCTIONS:

- Credit will be awarded for the correct use of formulae and functions, and no credit shall be awarded to manually typed-in answers even if the values are correct.
- Once you are finished, save/ rename the workbook to [LoginID-quiz2.xlsx](#), and submit your results via email to BPARK@monmouthcollege.edu.
- [BUSI201-S2024-Q02-S01-Workbook.xlsx](#) is the companion workbook for this quiz.
- The workbook consists of 2 worksheets: [Quiz2-Sheet1-S01](#) and [Quiz2-Sheet2-S01](#)
- The quiz booklet contains 2 problems.
- Double-check your submission email for your attached file, file name, and receiver's email address, as you will not be permitted to submit or update your solutions past the in-class deadline.
- The recovery rate for Quiz #2 will be 50%.

Problem #1. Investment Portfolio

The worksheet Quiz2-Sheet1-S01 contains a sample of an investment portfolio. The variable TICKER represents the asset's name, PRICE PER SHARE tells us how much each share costs, and SHARES contains information on how many shares is included in the portfolio.

- 1.A.** Fill in the **Red Box: A** by adding all values above each of the cells. For instance, cell E25 (left-most cell in the red box) should contain information on the market value of the entire portfolio.

- 1.B.** Fill in the **Blue Box: B** with the market value of each asset in the portfolio. The market value of each asset (ticker) can be found by multiplying the number of shares to the price per share.

- 1.C.** Fill in the **Green Box: C** with the proportion of each asset in the portfolio. For instance, the cell F5 should contain the following: $\frac{\text{Market Value of AAPL}}{\text{Value of Entire Portfolio}}$

TICKER	PRICE PER SHARE	SHARES	MARKET VALUE	% OF PORTFOLIO
AAPL	\$ 187.68	4.92		
MSFT	\$ 405.65	9.56		
AMZN	\$ 170.31	1.89		
GOOGL	\$ 144.56	2.48		
TSLA	\$ 183.88	6.13		
KO	\$ 59.98	4.24		
PFE	\$ 27.04	6.45		
TOTAL	-	-		

- 1.D.** Fill in the **Orange Box: D** by answering each question listed in the table.

QUESTIONS	ANSWER
How much does one share of the most expensive stock cost?	
How much does one share of the least expensive stock cost?	
How many distinct assets are there in the portfolio?	
What is the average price per share of all assets in the portfolio?	
How much does the third most expensive stock cost?	

Problem #2. PISA Math Scores

The worksheet Quiz2-Sheet2-S01 contains real world data on the math skills assessment of OECD countries' high school students on the years 2015 and 2018. Using the data provided in this worksheet, complete the following two tasks.

- 2.A.** Fill in the **Red Box: A** difference in test scores between the years of 2015 and 2018. If the scores increased in 2018 compared to 2015, your answer should be a positive number. If the scores decreased in 2018 compared to 2015, your answer should be a negative number.
- 2.B.** Fill in the **Blue Box: B** with the ranking of each country's math skill evaluations as of 2018. The country with the *highest* score should be ranked as #1.

COUNTRY	MATH SCORES			2018 RANK
	2015	2018	DIFFERENCE	
AUS	494	491		
AUT	497	499		
BEL	507	508		
CAN	516	512	A	B
CZE	492	499		
DNK	511	509		
FIN	511	507		
...		

• Original Score: _____

• Recovered Score: _____

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