Congratulations! You passed!

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To pass 80% or higher

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1. Your task is to build a simple financial model using some of the design techniques that you have just learned about. Download the workbook, open it and get ready for your task instructions.

1/1 point

Important:

Remember to save your workbook frequently as you progress through the exam.



C4 W1 Final Assessment

The provided workbook includes the Inputs worksheet. You will need to build calculation worksheets in order to the provided worksheet worksheet worksheet worksheet. The provided worksheet wormodel the forecasted Revenue, Cost of Goods Sold, Expenses and overall Net Income for each month from Jan 2018 to Dec 2022. The calculations will need to be flexible enough to allow changes to the user-variable input values without the need to re-write any calculation formulas.

 $Start\ by\ adding\ a\ new\ worksheet\ and\ name\ it\ \textbf{Calcs_Monthly}.\ Have\ a\ look\ at\ the\ supplied\ image.\ Note\ that$ "1.000" is "1", with three decimal places.



You can also download the image:



We suggest that you keep this open in another browser tab or window so that you can refer back to it easily. This is a suggest that you can refer back to it easily. This is the suggest that you keep this open in another browser tab or window so that you can refer back to it easily. This is the suggest that you can refer back to it easily. This is the suggest that you can refer back to it easily. This is the suggest that you can refer back to it easily. This is the suggest that you can refer back to it easily. This is the suggest that you can refer back to it easily. This is the suggest that you can refer back to it easily. This is the suggest that you can refer back to it easily. This is the suggest that you can refer back to it easily. This is the suggest that you can refer back to it easily. This is the suggest that you can refer back to it easily. The suggest that you can refer back to it easily the y $the \ look \ of \ the \ worksheet \ we \ are \ going \ to \ build, except \ it \ is \ going \ to \ extend \ out \ to \ column \ \textbf{BN}, not \ just \ column \ \textbf{L}.$ As you build it you will be asked questions about certain calculated values.

Begin by adjusting the column widths to match the image. Adjust the widths so that

- A and B are width 4,
- **c** is 30,
- **D** and **F** are 9,
- **E** is 12, and

	• columns G:BN are 12.		*
	How do you go about changing the column width? Select the column you want to adjust, go to the Page Layout tab, and select Width from the Scale to Fit		
	area.		
	Select the column you want to adjust, right-click and choose Format cells.		ı
	Select the column you want to adjust, go to the Home tab, click on Format .		
	 Correct Yes, that's correct. You can also right-click on the selected column and click on Column Width. 		
2.	Still on the Calcs_Monthly sheet, freeze the area from cell A1 through to F8. Which cell do you need to select	1/1 point	
	before you click on Freeze Panes ?		
	(Enter your answer as a valid cell reference, e.g., H2)		
	G9		
	⊙ Correct		
	Yes, that's correct. You needed to select the cell immediately to the right and below the section you want to freeze.		
			•
	Type in the headers, row labels and units labels in columns B, C and D as shown in the image. Apply font colors, borders, bold font and other formatting as shown in the image (this doesn't have to be exact). Also, type values of	1/1 point	
	1 in cells F11 and F12, and format them as fixed assumptions (blue font) to 3 decimal places.		
	Display the Period Start Date by using the named range Model_Start_Date (already preset in the workbook) in G5 . What value is displayed in the cell?		
	43101		ı
	Yes, that's the correct answer. Well done - you are ready for the next task.		
	You need to change the result from the previous question to the correct date format. The format needs to be 01-	1/1 point	
	Jan-18. Which of the below will allow you to do that?		
	Select the cell, go to the Home tab, click on Format, Format Cells Select the cell and use the keyboard shortcut CTRL+;		
	Select the cell, go to the Home tab, select Long Date from the Number group.		
	⊘ Correct		
	Yes, that's right. You need to enter the Format Cells dialog in order to select this specific Date format.		
			^
	Now let's complete rows 5, 6, 7 and 8. Instructions: In cell G6, use the EOMONTH function. It requires two arguments. The start date is located in cell	1/1 point	
	G5 , and we want zero months after the start date for the second argument.		
	Next, in cell H5 , write =G6+1 .		
	Now apply the same date format as in $\mathbf{G5}$ to the cells $\mathbf{G6}$ and $\mathbf{H5}$. Use the fill handle to drag the formula from $\mathbf{G6}$ to $\mathbf{BN6}$ and from $\mathbf{H5}$ to $\mathbf{BN5}$.		
	What does it read in cell 25 ?		ı
	(Hint: The answer needs to be exactly in the date format as 01-Jan-18 , using the English month names)		
	01-Aug-19		
	Yes, that's right. Well done. You are ready to move on to the next question.		
	Where possible we want to use a single consistent formula in each row. Where we don't do that, such as cell G5	1/1 point	
	which is different from the rest of row 5, we want to format the unique cell in red font, to indicate to the user that it contains a different formula. Change the font color in cell G5 to red.		
	Next, in cells G7:BN7, use the MONTH function with a reference to row 5 to calculate the value. Do the same in cells G9:BN8 but use the MONTH function instead		
	cells G8:BN8 but use the YEAR function instead.		~

That's our timing headers complete! We are going to use these row 7 and 8 header values in subsequent calculations. To double-check your progress, type the value in AN7 below: 10 **⊘** Correct Yes, that's right. Well done on accurately applying the MONTH function. $\textbf{7.} \ \ \text{Now to calculate the Growth Factors. To follow good design practices, we need a single formula in cell \textbf{G11} that are the statement of the state$ 2/2 points can be copied across cells G11:BN11. It will escalate in value each year according to the assumptions on the $\textbf{Inputs} \text{ tab. Remember it also needs to be flexible enough to allow for changes to the inputs, such as a change in the s$ the month of growth at Inputs!F32. For this assessment, we will provide a way of writing the formula, since the emphasis right now is on modeldesign and not the use of particular functions. Try and make sure you understand what each part of the formula is doing though, and why it is structured the way Enter the formula below in ${\bf G11}$ - you can use copy and paste. =F11*(1+IF(G\$7=Inputs!\$F\$32,INDEX(Inputs!\$F\$26:\$F\$30,MATCH(G\$8,Inputs!\$E\$26:\$E\$30,0)),0)) Then apply the formula across **G11:BN11**. Finally, Format row 11 to three decimal places. What is the value in BH11? (Type your answer rounded to three decimal places, e.g. 1.234) 1.174 Yes, that's exactly right. Let's move on to the next question. 8. The formula from the previous question is quite hard to read and understand - let's name some of the 3 / 3 points components in the formula to improve this Go to your workbook and name the following ranges — make sure to be exact! Inputs worksheet: E26:E30: GrowthRevYR F26:F30: GrowthRevPCT F32: GrowthRevMth Take a look at the original formula: = F11*(1+IF(G\$7=Inputs!\$F\$32,INDEX(Inputs!\$F\$26:\$F\$30,MATCH(G\$8,Inputs!\$E\$26:\$E\$30,0)),0)) $Type\ below\ what\ the\ formula\ will\ look\ like\ when\ you\ use\ your\ newly\ named\ ranges.\ Don't\ use\ extra\ spaces\ in\ the$ formula when you enter your answer below. = F11*(1+IF(G\$7=GrowthRevMth,INDEX(GrowthRevPCT,MATCH(G\$8,GrowthRevYR,0)),0))Yes, well done. Working with Named Ranges in your formulas not only helps to understand what the formula is doing but also to make changes to it - as you will see in the next task. 9. We will use the same formula construction to write the formula for cells **G12:BN12**, but making reference to the 2/2 points Name your ranges again first on the Inputs worksheet: E36:E40: GrowthExpYR F36:F40: GrowthExpPCT F42: GrowthExpMth Type below what the formula will look like now. $(\textit{Hint: Once you get the formula to work in Excel}, \textit{use copy and paste to enter your answer below rather than the property of the propert$ typing it in manually.) = F12*(1+IF(G\$7=GrowthExpMth,INDEX(GrowthExpPCT,MATCH(G\$8,GrowthExpYR,0)),0))



	31586		•
	 Correct Yes, that's the correct answer. You are nearly there now. Just one more task left. 		
	In row 20, calculate the expenses. Remember they should be a negative value. Make reference to the Initial Expenses \$ / month value on the Inputs sheet, and to the Expenses growth factor at row 12 on the Calcs_Monthly sheet. Complete the row through to BN.	2/2 points	
	Calculate the row sum at cell E20 . What is the value in E20 ?		
	Type your answer without the thousands separator and without the brackets (e.g. 12345)		
	799105		
	 Correct Yes, well done. You are nearly done with the Monthly calculations. 		
	Finally, calculate the Net Income as the sum of the Gross Margin and Expenses . What is the value of Net Income in the month of April 2020?	1/1 point	п
	Type your answer without the thousands separator (e.g. 12345)		v
	15223		
	 Correct Congratulations! You have built a simple monthly financial model. 		