# BOOST YOUR SKILLS IN Microsoft Excel 365/2021

Excel Chapter 2: Calculating Student Grades Using Formulas

# Learning Objectives

#### After studying this chapter, you will be able to:

- Use formulas to perform calculations
- Rearrange data on a worksheet
- Manage multiple worksheets

## Creating Formulas

- Use formulas to perform calculations.
  - Formulas are written as mathematical problems.
  - Formulas always begin by typing an "=" sign.

The Formula Bar displays the formula.

D2 \( \times \) \( \times \) \( fx \) =2\*250

A B C D

Name # of Guests Price Per Person Total

Jada Lee 2 250 500

The formula cell displays the result.

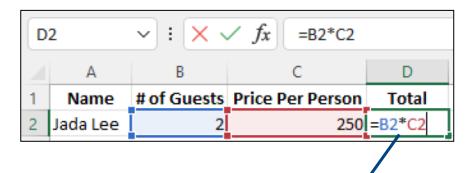
#### Perform Worksheet Calculations

#### Mathematical operator keystrokes

KEYSTROKES FOR USING OPERATIONS IN FORMULAS			
Operation	Keystroke	Example	Result
Addition	+	=3+2	5
Subtraction	-	=3-2	1
Multiplication	*	=3*2	6
Division	/	=3/2	1.5
Exponent	۸	=3^2	9

#### Cell References

They take the place of a number in a formula.



Cell D2 references cells B2 and C2, multiplying them together.

- They make it easier to copy formulas.
- Excel automatically recalculates if the value in the cell reference changes.

# Order of Operations

- Excel follows a standard order of operations:
  - Parentheses
  - Exponents
  - Multiplication
  - Division
  - Addition
  - Subtraction

PEMDAS is often remembered with the phrase, "Please Excuse My Dear Aunt Sally."

## Importance of PEMDAS

If you don't apply the order of operations properly, it can significantly change the outcome of your formula.

**=5+7\*10-9** 

**Results in:** 

=5+70-9

=75-9

=66

=(5+7)\*(10-9)

**Results in:** 

=(12)\*(1)

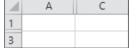
=12

## Rearrange Data on a Worksheet

You can insert and delete rows, columns, and cells.



You can hide and unhide rows and columns.



In this example, column B and row 2 are hidden.

You can sort data by column.



# Managing Multiple Worksheets

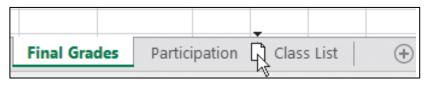
You can insert and delete worksheets.



You can rename worksheets.

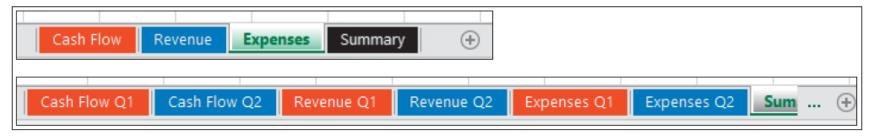


You can move a worksheet.

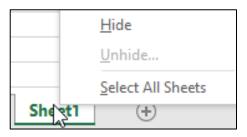


# Managing Multiple Worksheets (cont.)

You can change the worksheet tab color.



You can hide a worksheet.



# Managing Multiple Worksheets (cont.)

You can create a cell reference to another worksheet.



- You can create a copy of a worksheet.
- You can edit multiple sheets at one time.



The Participation and Exam worksheets are grouped and can now be edited simultaneously.

