MTH1W – Unit 9: Statistics

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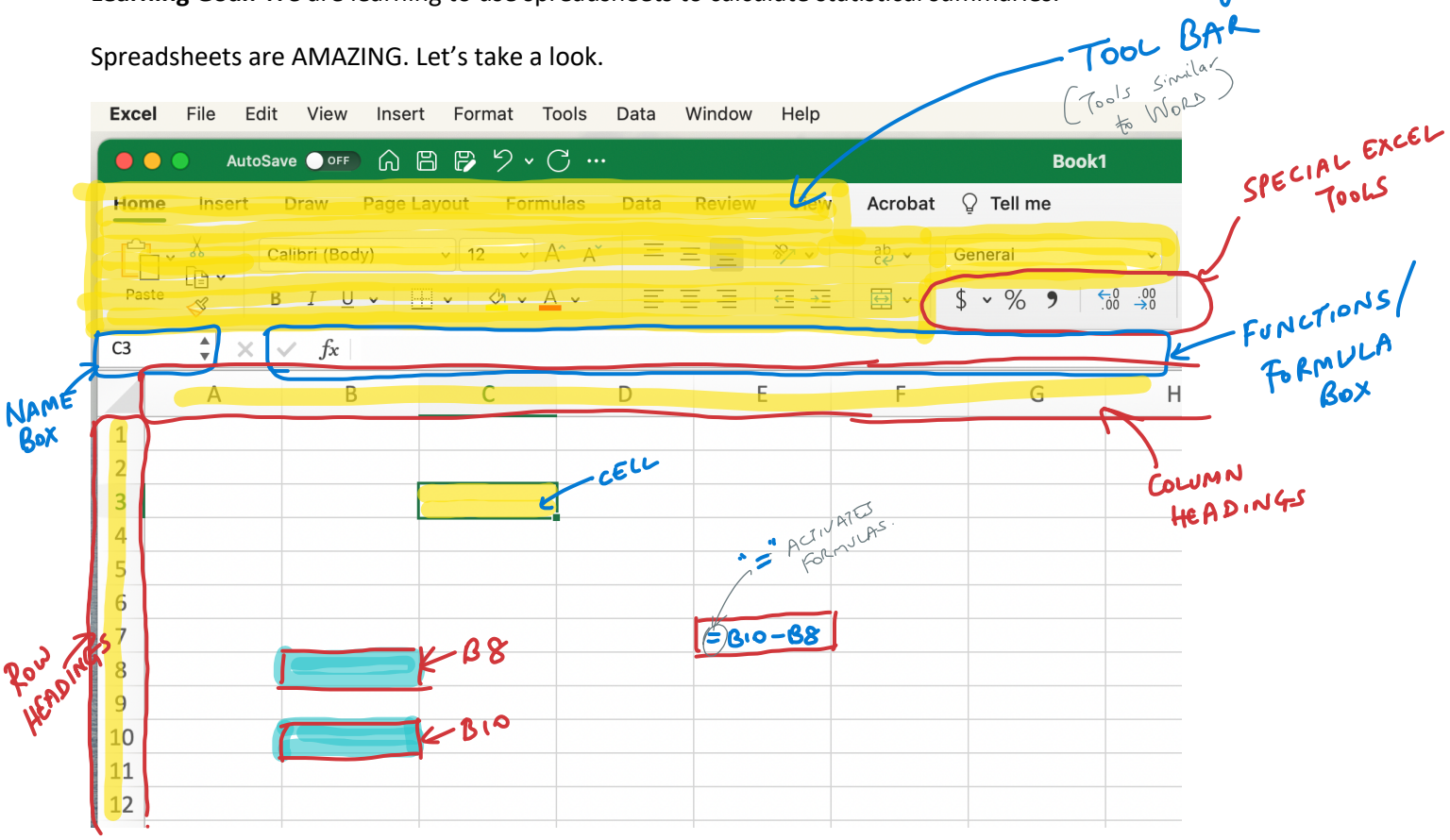
Lesson #9.4: Using Statistics with Spreadsheets

Date: May 28, 2025.

Learning Goal: We are learning to use spreadsheets to calculate statistical summaries.

Spreadsheets are AMAZING. Let's take a look.



Useful formulas: / FUNCTIONS

Sum	= SUM( )
Count	= COUNT( )
Mean	= AVERAGE( )
Median	= MEDIAN( )
Mode	= MODE( ) → #N.A ← no Mode.
Minimum	= MIN( )
Maximum	= MAX( )
Range	= MAX( ) - MIN( )
Standard Deviation	= STDEV.P( )

a) Open excel and type in the data into a column. You can type in just the second column.

1. Albert Pujols is one of the best baseball players of all time. Below are the number of homeruns he has hit in every year he has played.

Year	HR
2001	37
2002	34
2003	43
2004	46
2005	41
2006	49
2007	32
2008	37
2009	47
2010	42
2011	37
2012	30
2013	17
2014	28
2015	40
2016	31
2017	23
2018	19
2019	23
2020	6
2021	17

2. This table shows the average salary for various job sectors in Canada (as of 2021).

Job Sectors	Average Salary
Accommodation and Food Services	$22,877
Administrative and Support	$47,369
Arts, Entertainment and Recreation	$40,241
Construction	$68,374
Education	$58,343
Finance and Insurance	$76.843
Forestry and Logging	$58,739
Health Care and Social Assistance	$52,888
Information and Culture Industries	$71,634
Management of Companies and Enterprises	$74,560
Manufacturing	$59,250
Mining, Oil and Gas Extraction	$113,506
Professional, Scientific, and Technical	$76,077
Public Administration	$75,799
Real Estate (Rental/Leasing)	$58,623
Retail	$34,503
Transportation and Warehousing	$61,011
Utilities	$101,531
Wholesale Trade	$67,456

b) Make a summary table under for each as follows: Fill in this paper.

	Albert Pujols Homeruns	Canadian Job Salaries
Count		
Mean		
Median		
Mode		
Minimum		
Maximum		
Range		
Standard Deviation		
Low End of Normal Range		
High End of Normal Range		
Years/Jobs Above Normal		
Years/Jobs Below Normal		

c) Submit your spreadsheet to Edsby.