

Spreadsheet Assignment 4 – ADG

For this exercise students will create an Average Daily Gain workbook for livestock. Students will need to calculate the Age, Gain, and then Average Daily Gain for the livestock that were born in the spring then find the averages, median, minimum and maximum gains.

Instructions

Download these files: [Excel 4 Outline - ADG](#) and [ADG.xlsx](#).

Students are to complete the spreadsheet provided; calculate the average daily gain for livestock.

Objectives

- Complete calculations in workbook
- Use formulas in calculating Average Daily Gain
- Calculate Totals, Averages, Median, Minimum, Maximum, and Count

The spreadsheet must include:

- Edited workbook
- Completing all calculations as instructed
- Formatting of data correctly

1. Open workbook

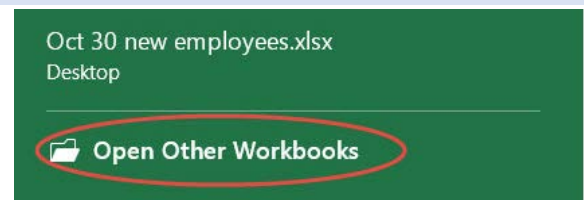
1. **Download** the spreadsheet *ADG* from this assignment to your class folder.

2. **Double click** on file name to open

Or

3. **Open** spreadsheet program

Select *Open Other Workbooks*, find the file and open.



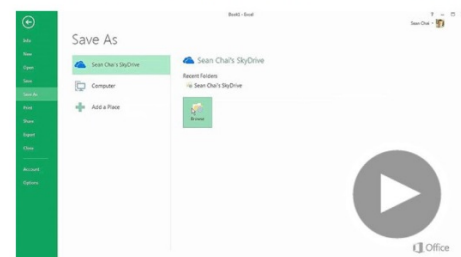
2. Save your spreadsheet

Save your spreadsheet the first time by selecting **save as**.

1. **Click File > Save as**, pick or browse to the folder on the desktop you created, type a name (**lastname_ADG**) for your document in the File name box, and **click Save**.

Be sure to Ctrl+S often.

Video: Save and print an Excel workbook



3. Calculate age of calves weaned

To calculate the age of calves weaned subtract the Birth date from the date of weaning.

1. Using date weaned and birthday, insert formula to determine age of calves.
2. Use F4 to make the date you weaned as your constant to help you drag down your formulas
3. Input the information as whole number of days.

Finish calculating the age of all calves.

NAME		9/25/2010			
Birthdate	Birth Wt	Weaning	Ave Daily Gain	Gain	Age
February 12, 2010	73	603			225
February 17, 2010	75	615			
February 20, 2010	77	627			
February 25, 2010	79	639			
March 2, 2010	81	651			
March 5, 2010	83	663			
March 10, 2010	85	675			
Totals					
Average					
Median					
Minimum					
Maximum					
Count					

4. Calculate amount of weight gained

To calculate the amount of weight gained; subtract the birth weight from the weaning weight.

1. **Insert** formula for amount of weight gain by each calf.

Finish calculating the weight gain of all calves.

NAME		9/25/2010			
Birthdate	Birth Wt	Weaning	Ave Daily Gain	Gain	Age
February 12, 2010	73	603		530	225
February 17, 2010	75	615			
February 20, 2010	77	627			
February 25, 2010	79	639			
March 2, 2010	81	651			
March 5, 2010	83	663			
March 10, 2010	85	675			
Totals					
Average					
Median					
Minimum					
Maximum					
Count					

5. Calculate average daily gain

To calculate the average daily gain; divide Gain by the Age of the calf.

1. Using Gain and Age **calculate** calf average daily gain.

Finish calculating the average weight gain of all calves.

NAME		9/25/2010			
Birthdate	Birth Wt	Weaning	Ave Daily Gain	Gain	Age
February 12, 2010	73	603	2.4	530	225
February 17, 2010	75	615			
February 20, 2010	77	627			
February 25, 2010	79	639			
March 2, 2010	81	651			
March 5, 2010	83	663			
March 10, 2010	85	675			
Totals					
Average					
Median					
Minimum					
Maximum					
Count					

6. Fill in Total's values

Calculate the totals for the columns EXCEPT Birthday and Avg. Daily Gain.

1. In the Totals row, **select** the Birth Weight column cell.

2. **Create** a formula to add the cells.

Repeat for each column

NAME	9/25/2010				
Birthday	Birth Wt	Weaning	Ave Daily Gain	Gain	Age
February 12, 2010	73	603	2.4	530	225
February 17, 2010	75	615	2.5	540	220
February 20, 2010	77	627	2.5	550	217
February 25, 2010	79	639	2.6	560	212
March 2, 2010	81	651	2.8	570	207
March 5, 2010	83	663	2.8	580	204
March 10, 2010	85	675	3.0	590	199
Totals	760.00	6,210.00		3,920.00	1,482.25
Average					
Median					
Minimum					
Maximum					
Count					

7. Fill in the Average values

In the Average row, calculate the average for each column (except Birthday).

Calculate the Average for each column

3. **Select** the cell for *Birth Weight Average*.
4. **Select** *AVERAGE* (from the list under AutoSum).
5. **Adjust range** to *exclude* the Totals cell. (Make sure it is not including the Totals in the formula).
6. **Select** Okay.
7. **Repeat** averaging the numbers for each column.

	A	B	C	D
1		NAME	9/25/2010	
2		Birthday	Birth Wt	Weaning
6		February 12, 2010	73	603
7		February 17, 2010	75	615
8		February 20, 2010	77	627
9		February 25, 2010	79	639
10		March 2, 2010	81	651
11		March 5, 2010	83	663
12		March 10, 2010	85	675
13		Totals	760.00	6,210.00
14		Average	=AVERAGE(C3:C12)	
15		Median		

The AVERAGE function adds a group of values, then divides the result by the number of values in the group.

8. Fill in the Median values

In the Median row, calculate the median for each column (except Birthday).

Calculate the Median value for each column

1. **Select** the cell for *Birth Weight Median*.
2. **Select** *MEDIAN* (from the list under AutoSum).
3. **Select range** by selecting the cells or typing in the cell reference numbers.
4. **Select** Okay.

Repeat averaging the numbers for each column.

	A	B	C	D
1		NAME	9/25/2010	
2		Birthday	Birth Wt	Weaning
6		February 12, 2010	73	603
7		February 17, 2010	75	615
8		February 20, 2010	77	627
9		February 25, 2010	79	639
10		March 2, 2010	81	651
11		March 5, 2010	83	663
12		March 10, 2010	85	675
13		Totals	760.00	6,210.00
14		Average	76.00	621.00
15		Median	79.00	
16		Minimum		
17		Maximum		
18		Count		

9. Fill in the Minimum values

In the Minimum row, calculate the minimum for each column (except Birthday).

Calculate the Minimum value for each column

1. **Select** the cell for *Birth Weight* Minimum.
2. **Select** *Minimum* (from the list under AutoSum).
3. **Adjust range** to exclude the Totals cell.
(Make sure it is not including the Totals in the formula).
4. **Select** *Okay*.

Repeat for each column.

	A	B	C	D
1		NAME		9/25/2010
2		Birthday	Birth Wt	Weaning
6		February 12, 2010	73	603
7		February 17, 2010	75	615
8		February 20, 2010	77	627
9		February 25, 2010	79	639
10		March 2, 2010	81	651
11		March 5, 2010	83	663
12		March 10, 2010	85	675
13	Totals		760.00	6,210.00
14	Average		76.00	621.00
15	Median		79.00	
16	Minimum		67.00	
17	Maximum			
18	Count			

10. Fill in the Maximum values

In the Maximum row, calculate the Maximum for each column (except Birthday).

Calculate the Maximum value for each column

1. **Select** the cell for *Birth Weight* Maximum.
2. **Select** *Maximum* (from the list under AutoSum).
3. **Adjust range** to exclude the Totals cell.
(Make sure it is not including the Totals in the formula).
4. **Select** *Okay*.

Repeat for each column.

	A	B	C	D
1		NAME		9/25/2010
2		Birthday	Birth Wt	Weaning
6		February 12, 2010	73	603
7		February 17, 2010	75	615
8		February 20, 2010	77	627
9		February 25, 2010	79	639
10		March 2, 2010	81	651
11		March 5, 2010	83	663
12		March 10, 2010	85	675
13	Totals		760.00	6,210.00
14	Average		76.00	621.00
15	Median		79.00	
16	Minimum		67.00	
17	Maximum		85.00	
18	Count			

11. Fill in the Count values

In the Count row, calculate the Count for each column (except Birthday).

Calculate the Count value for each column

1. **Select** the cell for *Birth Weight* Count.
2. **Select** *Count* (from the list under AutoSum).
3. **Adjust range** to exclude the Totals cell. (Make sure it is not including the Totals in the formula).
4. **Select** *Okay*.

Repeat for each column

	A	B	C	D
1		NAME		9/25/2010
2		Birthday	Birth Wt	Weaning
6		February 12, 2010	73	603
7		February 17, 2010	75	615
8		February 20, 2010	77	627
9		February 25, 2010	79	639
10		March 2, 2010	81	651
11		March 5, 2010	83	663
12		March 10, 2010	85	675
13	Totals		760.00	6,210.00
14	Average		76.00	621.00
15	Median		79.00	
16	Minimum		67.00	
17	Maximum		85.00	
18	Count		10	

12. Add your name, make adjustments, save your work

Add your name to the worksheet, then make any adjustments to the columns and rows to make it more readable.



Click the **Save** button on the **Quick Access Toolbar**, or press Ctrl+S.

13. Upload file your completed spreadsheet to Excel 4 - ADG

After completion save your file one more time then upload the file to this assignment:

1. **Click on the title**
1. **Select Add Submission**
2. **Drag and drop** your file into the box or select your file to upload

