

Name:

COMPUTING FOR FARMERS USING FARM DATA WORKBOOK

This workbook has been updated following the completion of the RMPP (Red Meat Profit Partnership) and is designed to be used in a workshop setting, however, is suitable for one-on-one use for farmers to develop their Excel skills.

Please note if using an Apple (Mac) computer some of the shortcuts and steps will be slightly different. We recommend using Microsoft Excel for Mac in addition to Apple numbers when working through this workbook.

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Session 1 – Getting to know Excel

Case Study

James and Jane Hunter run a sheep and beef farm on the east coast of the North Island.

With 2,600 Coopworth ewes and 145 cows (including heifers), their stock policies include:

- Mating hoggets (most years);
- Finish lambs at around 17.5kglwt;
- Finish steer calves;
- Heifer calves (minus replacements) are sold at weaning;
- Scanned dry heifers are also sold.

You are to help James and Jane prepare a **stock reconciliation** for the coming year.



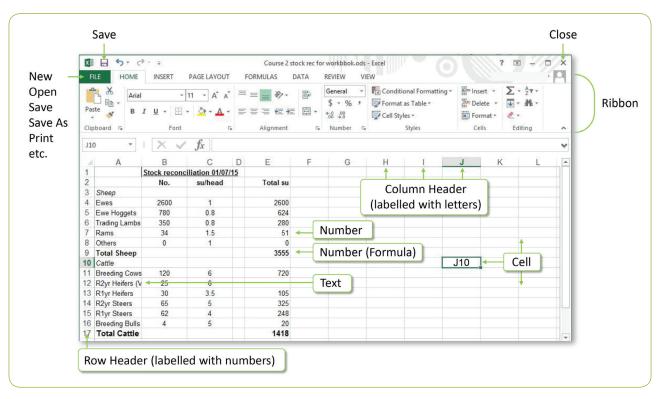
Getting started with Excel

Tasks

- Open the Stock Reconciliation Spreadsheet
- Using the Stock Reconciliation Spreadsheet, identify the key parts of the spreadsheet (Row Header, Row, Column Header, Column, Cell, the File tab on the Ribbon)
- Use the left and right mouse keys and the tab key to move around the spreadsheet
- Identify the cell format types used in this spreadsheet (Text, Numeric, Formula)
- Use Save As to rename (append your initials to the end) and save the spreadsheet (so you can go back to the original copy if you make a mistake)
- Place a shortcut to the spreadsheet on your desktop for easy access

1

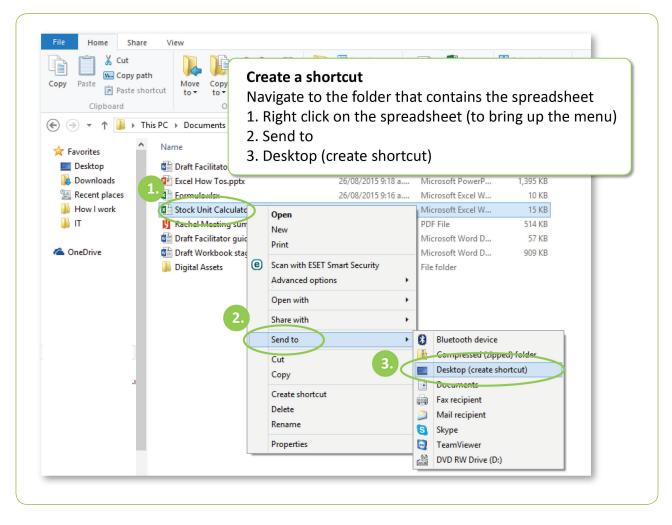
Key menu items / areas in Excel



Save As

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Desktop Shortcut



3

Session 2 – Next steps in Excel

Case Study

James and Jane have recently had the following changes in stock numbers:

- On scanning the heifers they found 3 dries.
- They have now sold all the trading lambs.

In this session we will update their stock reconciliation to reflect these changes.



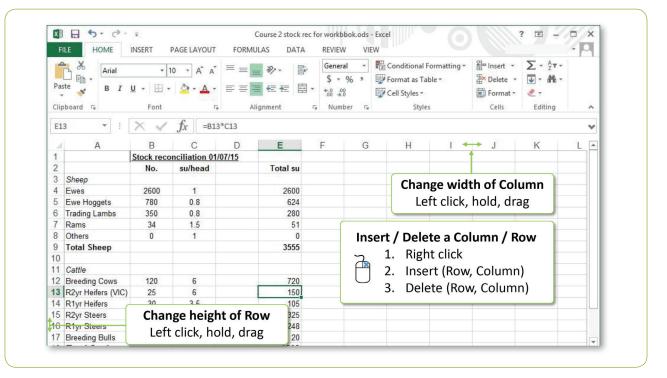
Updating Content

Tasks

Use the left and right mouse keys to make the following changes to the Stock Reconciliation Spreadsheet.

- Insert a row under the Total Sheep row
- Insert a row under the Total Cattle row
- Delete Column D
- Increase the height of Row 1
- Increase the Width of Column A

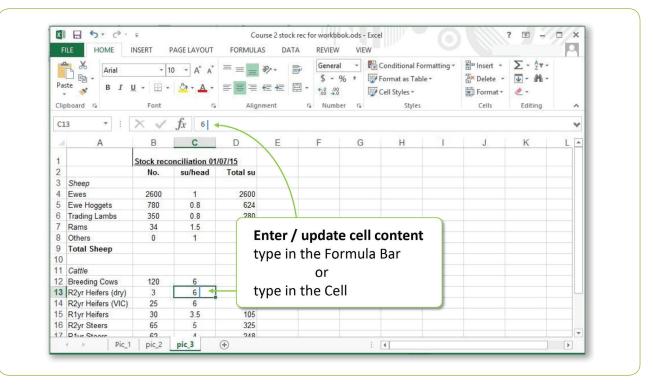
Insert/delete and change width/height of a row or column



Tasks

- Insert a row under the Breeding Cows row
- Type the following information into the new row, Column A = R2yr Heifers (dry), Column B = 3, Column C = 6
- Copy the formula from the Total Su column for Breeding Cows and paste it into the new row below
- Delete the Trading Lambs row

Enter text or numbers



Copy and Paste

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Delete Rows

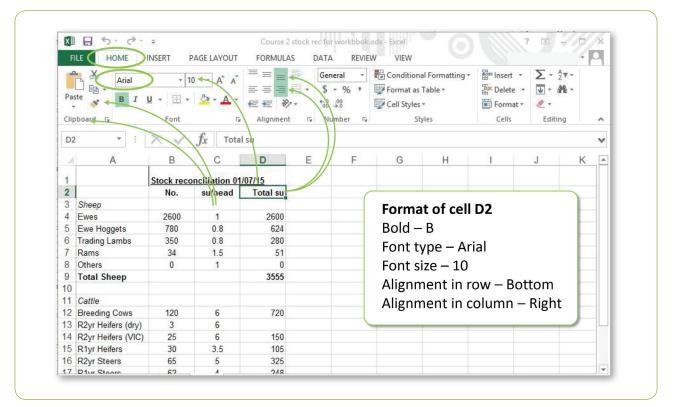
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Formatting content

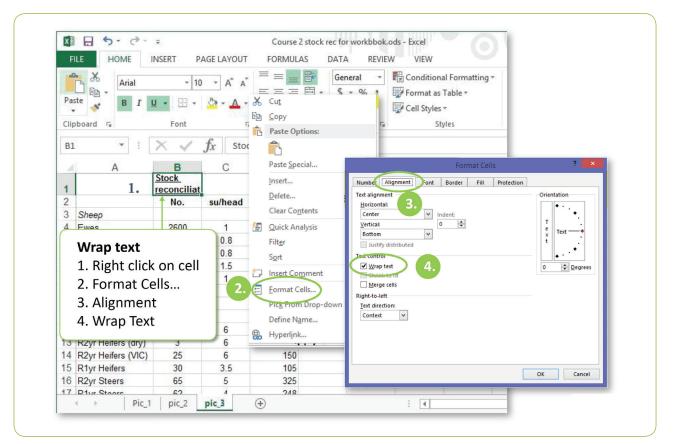
Tasks

- Increase the font size of the spreadsheet title (cell B1) from 10 to 12.
- Remove the underline from the spreadsheet title (cell B1).
- Use Wrap text to wrap the content of spreadsheet title (cell B1) then select undo
- Add a 1000 separator to column D
- Select Row 2 and a background colour to add emphasis

Format text



Wrap Text



1000 Separator

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Session 3 – Organise information and use formulae

Case Study

Now James and Jane want to add information about total feed eaten by each stock class into their spreadsheet.

In this session we will focus on this task.

We will also learn how to view and edit specific information.



Formulae

Tasks

• Type the following information (kgDM eaten/day) into column E

2		kgDM eaten/day	
3	Sheep	outoninuuj	
4	Ewes	1.2	
5	Ewe Hoggets	1.0	
6	Trading Lambs	1.2	
7	Rams	8.0	
8	Others	0.0	
9	Total Sheep		
10			
11	Cattle		
12	Breeding Cows	8.0	
13	R2yr Heifers (dry)	7.0	
14	R2yr Heifers (VIC)	7.0	
15	R1yr Heifers	6.0	
16	R2yr Steers	10.0	
17	R1yr Steers	10.0	
18	Breeding Bulls	10.0	
19	Total Cattle		
20			

Tasks

- Type "Total kgDM eaten/day" into cell F2
- Type the formula "=D4*E4" into cell F4 (see Appendix Two: Formulae for a list of basic formulae)
- Use copy and paste to copy this formula to the remaining stock classes
- Use the Excel AutoSum function to total feed for Sheep (cell F9) and to total feed for Cattle (cell F19)
- Type the formula "=F9+F19" into cell F21 to total all feed (see Appendix Two: Formulae for a list of basic formulae)

X - 5. C. + • 2 stock rec for workbbok.ods Sum a Column or Row 3. 4. PAGE LAYOUT FORMULAS DATA REVIEW HOME INSE fx D AutoSum 1. Click in the cell where the sum is to appear Define Name ∑ Sum Recently Used * \mathcal{F}_{x}^{1} Use in Formula 2. FORMULAS nsert Function 📗 Financial -Average Create from Selection 3. ∑ AutoSum <u>C</u>ount Number Function Li Defined Names 4. 5 Sum Max * : X SUM Min (Excel will automatically determine a range) A E F More 5. Enter (on your keyboard) Total kgDM kgDM functions... 2 day eate day 3 Sheep 4 Ewes 5 Ewe Hoggets 6 Trading Lambs 2,600 2600 1 1.2 1.0 624 780 0.8 624 1.2 350 0.8 280 336 408 Rams 34 1.5 51 Others 0 1 9 Total Sheep =SUM(F4:F8) 3,555 umber2], ...) 11 Cattle 12 Breeding Cows 120 6 720 80 5760 6 18 13 R2yr Heifers (dry) 126 3 7.0

AutoSum Excel formula

Organise Information: Case study

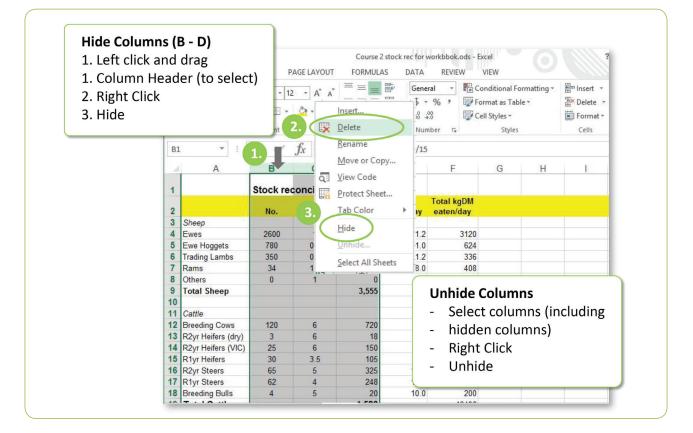
James and Jane are updating their feed budget and only want to focus only on this information.

You are to help them with this task.

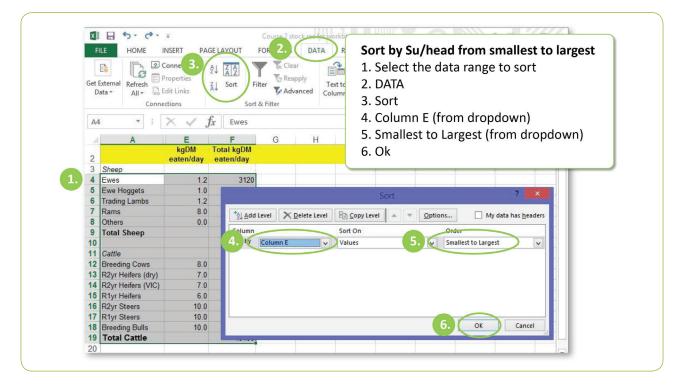
Tasks

- Hide columns B to D so you are only viewing information about feed
- Use the Excel Data / Sort function to sort the Total kgDM eaten/day column (column F) from lowest to highest value
- Use the Undo function to reset to the original view
- Use the Excel Data / Filter function to only display information for Heifers
- Use the Undo function to reset to original view
- Use the Excel Replace function to search for all instances of "yr" and replace these with "year" (or other text in their spreadsheet)

Hide and Unhide



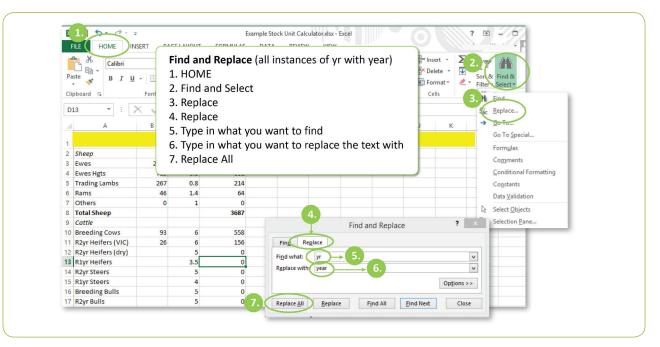
Sort



Filter Data

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15 R1yr Heifers	Breeding Cows		
16 R2yr Steers 4	Cattle		
17 R1yr Steers	Ewe Hoggets		
18 Breeding Bulls	R1yr Heifers		
19 Total Cattle	R1yr Steers		
20	R2yr Heifers (dy)		
	R2yr Heifers (VIC)	~	
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Find and Replace



Session 4 – Farm Management Tools

Use of a brand name does not imply endorsement or otherwise by Beef + Lamb New Zealand. Products are mentioned here only for information purposes, and this is not an exclusive list.

Introduction to Farm Management Tools: Case Study

James and Jane want to maximise their lamb performance this season. To do this they have set a goal of having a ewe body condition score of 3.0 across the whole flock at tupping. For the past 2 years James has been doing a winter feed budget but to achieve this goal, sees the value in doing one all year round. They are investigating what feed budgeting programmes are available to use.

James is sure they could be getting their steers up to weight quicker so is trialling them on fodder beet this year. With all their cattle now EID tagged, he is going to monitor their liveweight gain every six months.

Having recently completed a subdivision programme on part of the hill block, getting an updated farm map would also be useful. This would be good for when they have staff working on the farm too.

Jane has been responsible for keeping the farm accounts and so far has been using an Excel spreadsheet to record farm income and expenses. Yesterday however, the neighbour mentioned she was going to an introduction evening discussing farm financial management packages available such as Cash Manager and Xero.

Having just calculated their greenhouse gas numbers with Beef + Lamb New Zealand, the Hunters are keen to explore nutrient management further.

Farm management tools

NOTE: All figures and costs are captured at the time of writing - April 2023.

FARMAX

A feed planning and livestock modelling and recording programme. Can be used to plan, review and compare options. Assess livestock performance and efficiency at per ha, per stock class, per head and per kg/DM. Farmax has good reporting options.

http://www.farmax.co.nz/

https://www.youtube.com/watch?v=VDZf4WrdQeM

OVERSEER

Soil nutrient management modelling programme. Uses farm resource information (soil type, topography, climate, farm system, cropping, supplement use, stock numbers, soil fertility, fertiliser applications etc.) to model what is happening to soil nutrients. Used for decision making support and by Regional Councils for monitoring.

http://overseer.org.nz/

Financial

Farm Focus

Farm Focus is financial and planning software for New Zealand farmers. It's an interactive platform that provides up-to-date information between farming clients, their accountants and their bankers. Users get a superior view of their farm's performance and profitability, and can access valuable data and reports at any time, from anywhere.

Xero and Figured

Figured is leading farm financial management software that is helping farming teams better manage the profitability of their operations. https://www.xero.com/nz/farming/ https://www.youtube.com/watch?v=0PFDIF5Rpg0 https://www.figured.com/

Farm Mapping

Both Ravensdown and Ballance have farm mapping programmes they provide to their clients free of charge. Farm mapping enables farmers to record farm activities, areas, paddock treatments (fert, drainage, cropping etc.), identify hazards, tracks. It is free to shareholders.

http://www.ravensdown.co.nz/nz/pages/services/online-services/my-ravensdown/smart-maps.aspx https://ballance.co.nz/myballance

Farm Records

FARMIQ

Farm management software designed to drive sustainable, productive and profitable outcomes by bringing all your farm information into one place. Plan, Collaborate, Record, Report, Comply & Review. http://www.farmiq.co.nz/

TREV

Trev is your trusty farm reporting software to manage farm reporting requirements to help drive on-farm excellence. The software allows you to easily build and control a farm database, providing productive, profitable and sustainable insights. The weekly reporting framework takes less than ten minutes a week. Information can be shared across a farming operation, to advisors or platforms such as financial software providers, processors or organisations that determine a farm's licence to operate. www.mytrev.com

RESOLUTION

Resolution is a practical multi-tool that enables all your farm data to be stored in one spot, easy to use, 24/7 support, cloud based secure, automated compliance. https://resolutionapp.co.nz/

Other

Cloud Farmer

A cloud based diary that each team member can access. Useful for farm management recording such as reporting hazards, R&M, tallies, animal health treatments, timesheets etc. An app that works just like a notebook. https://cloudfarmer.app/

Getting Help

http://www.wikihow.com/Use-Excel http://chandoo.org/wp/excel-basics/

Next Steps

Homework Exercise

Most of James and Jane's farm income is from lamb sales and the bank suggests they budget on a schedule price of \$5.50/kglwt for this year. Their neighbour thinks the price will be better than that. James also feels that the forecast El Nino weather conditions will have an impact on average sale weights this year.

To see what effect the schedule and average sale weights have on value per head of lamb sold they want to do a **sensitivity table** and **inancial budget** to know where they are at.

Tasks
Use the information in the tables below to create your own 2 spread sheets for the Hunters: 1. Sensitivity table 2. Financial budget Create each table on a different tab in the same Excel document Make a formula wherever you can to do the calculations (eg. sum, =(x*y))
 Format currency and decimal points When you print the two spreadsheets, they should look the same as the ones on the page following.
Homework due:

	Α	B	С	D	E	F
1			Sensitivity Analysi	s – Prime L	ambs	
2						
3	Table 1	Per Head	Prime price (\$/kg)		
4		Weight (kg)	\$5.20	\$5.50	\$5.80	
5		16.5	\$86	\$91	\$96	
6		17.0	\$88	\$94	\$99	
7		17.5	\$91	\$96	\$102	
8		18.0	\$94	\$99	\$104	
9						
10						
11						
12						
13						
14						
15						

A	В	С	D	E	F
1 Mini Budget					
2 Sheep incom	ne Number	Price/kg	Kg/hd	TOTAL	
3 Cull ewes	520	\$3.50	23	\$41,860	
4 Trade lambs	2800	\$5.50	17.5	\$269,500	
5 Ewe wool	2600	\$4.00	5.5	\$57,200	
6 Beef					
7 R2 Steers	62	\$5.80	310	\$111,476	
8 Weaner Heifer	rs 30	\$2.40	225	\$16,200	
9 Dry heifers	5	\$5.80	240	\$6,960	
10 Cull Cows	25	\$4.80	255	\$30,600	
11 TOTAL INCO	ME			533796	
12					
13 Some expen	ses				
14 Animal health				\$21,000	
15 R&M				\$24,000	
16 Fertiliser				\$55,000	
17 Administration	1			\$16,000	
18 Other expense	es			\$191,000	
19 TOTAL EXPE	NSES			\$307,000	
20					
21 Net Income (before Interest, Tax	and Drawing	gs)	\$226,796	
22					
23 *This budget is	s over-simplified for the	e purpose of g	aining Excel	skills.	
24					
25					
26					

Appendix One: Some Shortcut keys

Ctrl + S	Save the active workbook.
Ctrl + A	Select the entire worksheet. If the cursor is currently placed within a table, press once to select the table, press one more time to select the whole worksheet.
Ctrl + C	Copy the contents of the selected cells to Clipboard.
Ctrl + X	Cut the contents of the selected cells to Clipboard.
Ctrl + V	Insert the contents of the Clipboard into the selected cell(s).
Ctrl + Z	Undo your last action.
Ctrl + P	Open the "Print" dialog box.
Ctrl + G	Open the "Go to" dialog box. Pressing F5 displays the same dialog.
Ctrl + F	Display the "Find" dialog box.
Home	Return to the 1st cell of the current row in a worksheet.
Ctrl + Home	Move to the beginning of a worksheet (A1 cell).
Ctrl + End	Move to the last used cell of the current worksheet, i.e. the lowest row of the rightmost column.

21

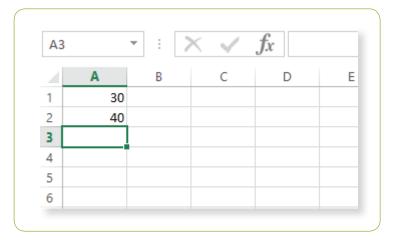
Appendix Two: Formulae

Basic formula operators

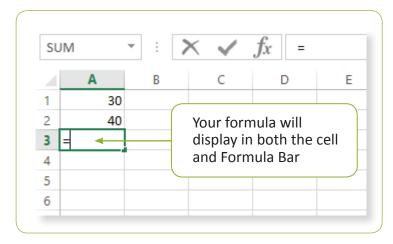
Formula	Description	Example of use
=A1+B1	Adds cells B1 and B2	Add feed sub totals to get total feed.
=A1*B1	Mulitplies cell A1 by cell B1	Multiply feed per stock unit by the total number of stock to get total feed.
=A4/A2	Divides cell A4 by Cell A2	To find average feed if you only have total figures and stock numbers
=A5*0.15	Mulitplies cell A5 by 1.5	Calculate GST
=SUM(B1:B4)	Totals the cells B1, B2, B3 and B4	Sub total amount of feed for a stock class.

Example A - add A1 and A2 (by typing the formula operators)

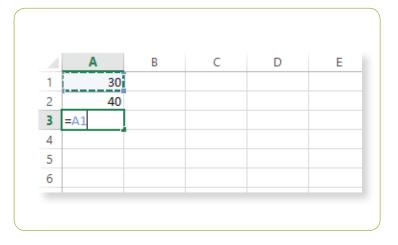
1. Click in the cell where you want your formula to display (e.g. A3)



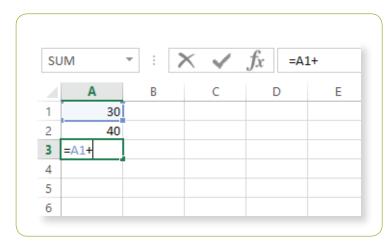
2. Type in the "=" sign



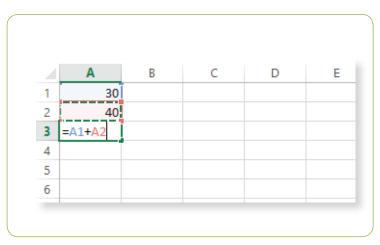
3. Click on the first cell you want to add (or type in the cell reference "A1")



4. Type in the mathematical operator – in this case the "+" sign



5. Click on the second cell you want to add (or type in the cell reference "A2")



6. Press Enter (and you're done)

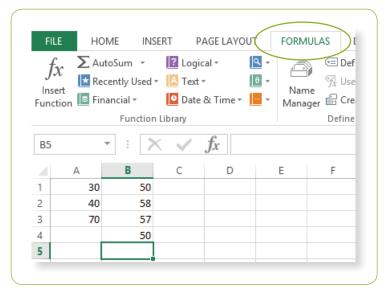
A4			\times \checkmark	f_x	
	Α	В	С	D	E
1	30				
2	40				
3	70				
4					
5					

Example B - Total the cells B1 to B4 (by using the Excel FORMULAS function)

FIL	E HO	DME	INSERT	PAGE LAY	OUT	FORMU	ILAS
fx Inse Funct	Re		ed + 🔼 1	Date & Time	• 🔍 •	Name Manag	
		Funct	ion Libraŋ	/			Define
B5		- :	\times	fx			
	А	В	C	D		E	F
1	30	5	50				
2	40	5	58				
3	70	5	57				
4		5	50				
4							

1. Click in the cell where you want your formula to display (e.g. B5)

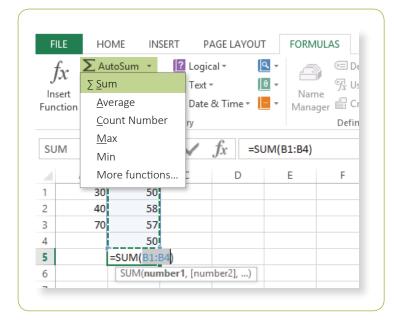
2. Click on the FORMULAS Tab



3. Click on the AutoSum down arrow

FIL	E	HOME	INSER	F P	AGE LAYO	UT	FORMUL	.AS
f	r	∑ AutoSi	um •]	? Logi	cal -	◄ -		回 Def
		∑ <u>S</u> um	\smile	Text	Ŧ	θ -	Name	$\mathscr{T}_{\mathcal{X}}$ Use
	JX Insert unction B5	<u>A</u> vera	ge	Date	& Time -		Manage	r 🔓 Cre
		<u>C</u> ount	Number	У			_	Define
		<u>M</u> ax			£			
BD		Min		-	Ĵx			
		More	functions.		D		E	F
1		30	50					
2		40	58					
3		70	57					
4			50					
5								

4. Click on ∑ Sum (Excel determines a cell range – if incorrect use your mouse to select the correct range)



5. Press Enter (and you're done)

FILE	HC	DME I	NSERT	PAGE LAY	OUT	FORMU	LAS
fλ Inser Funct	rt 🔣 Re		ed 👻 🔼 T	ext ≠)ate & Time	ج ا® ج ج	Name Manage	£ 6
B6		•	Xv	f _x			
	А	В	С	D		E	F
1	30	5	0				
2	40	5	8				
3	70	5	7				
4		5	0				
5		21	5				
6							
7							

Appendix Three: Glossary

Term	Description
Active cell	The selected cell in which data is entered when you begin typing.
Cell	A box formed by the intersection of a row and column in a worksheet or a table, in which you enter information.
Cell reference	The set of coordinates that a cell occupies on a worksheet. For example, the reference of the cell that appears at the intersection of column C and row 4 is C4.
Column heading	The lettered or numbered gray area at the top of each column. Click the column heading to select an entire column. To increase or decrease the width of a column, drag the line to the right of the column heading.
Filter	To display only the rows in a list that satisfy the conditions you specify. You use the AutoFilter command to display rows that match one or more specific values, calculated values, or conditions
Formula	A sequence of values, cell references, names, functions, or operators in a cell that together produce a new value. A formula always begins with an equal sign (=).
Operator	A sign or symbol that specifies the type of calculation to perform within an expression. There are mathematical, comparison, logical, and reference operators.
Range	Two or more cells on a sheet. The cells in a range can be adjacent or nonadjacent.
Row heading	The numbered gray area to the left of each row. Click the row heading to select an entire row. To increase or decrease the height of a row, drag the line below the row heading.
Spreadsheet	The primary document that you use in Excel to store and work with data. Consists of cells that are organized into columns and rows.

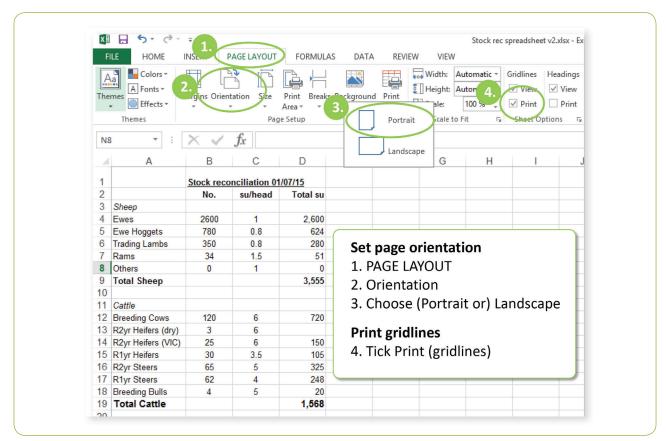
Appendix Four: Extension Activities

Tasks

- Set your print area (to ensure you are just printing the rows and columns in your worksheet)
- Change the page orientation to portrait
- Select print gridlines (to print the lines between your columns and rows)
- Print the worksheet

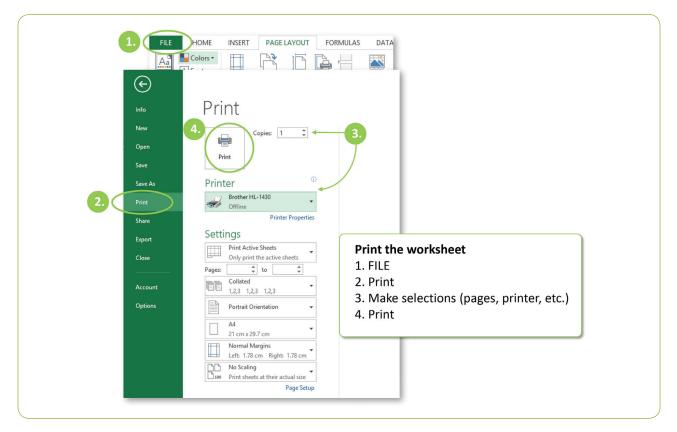
Set print area

	Colors 🕶	n 2. (
	mes	largins Orier	ntation Size	Print Breaks	Background
	- Effects -	*	* *	Area -	- Suckground
	Themes		Pag	je Set	Set print area
		~ /	£	3.	
A	· · · ·	$\land \lor$	f_x		Add print area
1.	Α	В	С	D	Clear print area
1		Ctool: roo	an alliation Of	107/45	
2		No.	onciliation 01 su/head	Total su	
3	Sheep	no.	sumeau	Total su	
4	Ewes	2600	1	2,600	
5	Ewe Hoggets	780	0.8	624	
6	Trading Lambs	350	0.8	021	
7	Rams	34	1.5	Set a	print area
8	Others	0	1		-
9	Total Sheep			T. 2616	ect the area you want to print
10				2. PAG	SE LAYOUT
11	Cattle			2 5 0+	print area
12	Breeding Cows	120	6	5. Set	print area
13	R2yr Heifers (dry)	3	6		
14	R2yr Heifers (VIC)	25	6	150	
15	R1yr Heifers	30	3.5	105	
	R2yr Steers	65	5	325	
	R1yr Steers	62	4	248	
	Breeding Bulls	4	5	20	
19	Total Cattle			1,568	
20					
21				5,123	



Change page orientation / print gridlines

Print Worksheet



Tasks

Create new sheet for 2016 stock reconciliation

- Rename the name of your sheet to "2015"
- Add a new sheet
- Rename it to "2016"
- Copy the column A and Row 1 data from your 2015 sheet and paste it to your new (2016) sheet
- Reorder your sheets so that 2016 becomes your first sheet

Rename, add and reorder sheets

	A	В	С	D	E	F	G	Н	1	J
1		Stock recon	ciliation 01/0	07/16						
2										
3	Sheep									
4	Ewes									
5	Ewe Hoggets									
6	Trading Lamb	s								
7	Rams									
8	Others									
9	Total Sheep									
10	Cattle									
11	Breeding Cov	'S								
12	R2yr Heifers	VIC)								
	R1yr Heifers									
	R2yr Stee									
	R1yr Ste	Rename								
	Breeding	Daubla /	مرتبه الما							
17		Double (l								
18		(or right (click, Re	name	e) 📘					
19					·					
20		Type new	name							
21										
22										
23										
24		-								
25		2015 2016								
_	4 P	2013 2010) 🕀		Add ne	ew shee	<u>د</u> ا			
	Re	order								





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