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Distinction	.Error! Bookmark not defined
Discuss both strengths and weaknesses of both spreadsheets	.Error! Bookmark not defined
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Review how the features (e.g., Functions, layout and structure) could improve productivity, accuracy and usability in both the tools using in this spreadsheet make it easier than using pen and paper.	
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Name:			

Assignment 1 – Uses and Features of Spreadsheet Software Packages

Introduction

Uses and Features of Spreadsheet Software Packages

Before you create the spreadsheet, the football club's managers would like some information about how spreadsheets are used in the real world.

He has asked you to review two different kinds of spreadsheets and to prepare a short presentation discussing the strengths and weaknesses of each of the spreadsheets.

The two spreadsheets should be designed for different purposes, for example:

- +cost modelling
- analysis of data
- tracking learners progress and recording results
- creating league timetables and match results
- stock control.

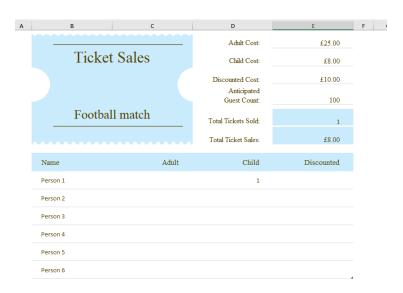
Create the presentation using PowerPoint® slides and notes. Make sure the presentation describes the below.

- The purpose of both spreadsheets.
- The purpose of the tools and techniques of both spreadsheets, e.g., to aid usability, to increase productivity, to improve accuracy and to present output data.
- How the tools and techniques of both spreadsheets are used, e.g., cell replication and formatting, page setup and user interfaces.

You should also:

- Review how the features (e.g., functions, layout and structure) could improve productivity, accuracy and usability in both spreadsheets.
- Discuss the strengths and weaknesses of both spreadsheets.

Spreadsheet 1 Ticket Sales



Pass

Purposes of Spreadsheet 1: to show and calculate the cost of tickets for either children or adults for the football match Cost modelling

Analysis of data

Name:		
Tracking learner process		
Recording results		
League tables		
Stock control		
Use of spreadsheet software	e tools and techniques, e.g	;.: :-
Tools and techniques		
Tool / technique	Used in Ticket	Where / how?

spreadsheet?

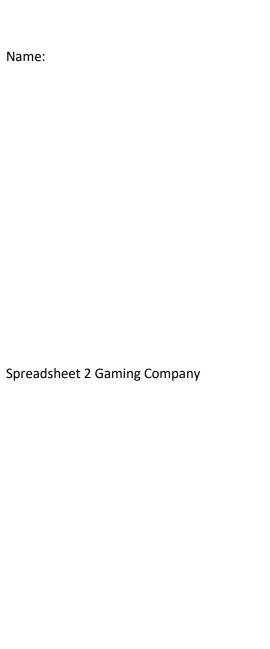
cell manipulation (e.g., entering and editing data, autofilling,	Autofill could have been used to populate the Names column	Name	Adult	Child
replication, conditional formatting (to highlight outcomes))		Person 1		1
(to inginight outcomes))		Person 2		
		Person 3		
		Person 4 Person 5		
		Person 6		

cell formatting (e.g.,	Key cells have been	A B C	D	E	F		
colours, shading,	coloured.	Ticket Sales	Adult Cost:	£25.00			
merging cells, alignment)		Ticket Sales	Child Cost:	£8.00			
	Widths has been		Discounted Cost: Anticipated	£10.00			
	adjusted to fit text.	Football match	Guest Count:	100			
		Football flatch	Total Tickets Sold:	1			
	Column D., etc have		Total Ticket Sales:	£8.00			
	been aligned to centre	Name Adult	Child	Discounted			
		Person 1	1				
		Person 2					
		Person 3					
		Person 4					
		Person 5					
		Person 6					
data manipulation (e.g., filters, sorts, pivot tables)	N/A	N/A					
formulae (e.g., add,	Calculate the total	RSVPAmount X	dultTickets*AdultCost		tt)+(DiscountCost*@DiscountTic		
subtract, divide,	amount of the valued	RSVPAmount V X V fx =IFERROR((@A	dultTickets*AdultCost	D	E	kets), "") F G	
		A B	С		et)+(DiscountCost*@DiscountTic E £25.00		
subtract, divide,	amount of the valued		С	D	E		
subtract, divide,	amount of the valued	A B	С	D Adult Cost:	£25.00		
subtract, divide,	amount of the valued	Ticket Sal	С	D Adult Cost: Child Cost:	£25.00 £8.00		
subtract, divide,	amount of the valued	Ticket Sal	es	D Adult Cost: Child Cost: Discounted Cost: Anticipated Guest Count:	£25.00 £8.00 £10.00		
subtract, divide,	amount of the valued	Ticket Sal	es	D Adult Cost: Child Cost: Discounted Cost: Anticipated Guest Count: Total Tickets Sold:	£25.00 £8.00 £10.00		
subtract, divide, multiply)	amount of the valued ticket sold	Ticket Sal Ticket Sal Football ma	es	D Adult Cost: Child Cost: Discounted Cost: Anticipated Guest Count:	£25.00 £8.00 £10.00		
subtract, divide, multiply) functions (e.g., sum,	amount of the valued	Ticket Sal	es	D Adult Cost: Child Cost: Discounted Cost: Anticipated Guest Count: Total Tickets Sold:	£25.00 £8.00 £10.00		
subtract, divide, multiply) functions (e.g., sum, average, count and	amount of the valued ticket sold	Ticket Sal Ticket Sal Football ma	es	D Adult Cost: Child Cost: Discounted Cost: Anticipated Guest Count: Total Tickets Sold:	£25.00 £8.00 £10.00		
subtract, divide, multiply) functions (e.g., sum,	amount of the valued ticket sold	Ticket Sal Ticket Sal Football ma	es	D Adult Cost: Child Cost: Discounted Cost: Anticipated Guest Count: Total Tickets Sold:	£25.00 £8.00 £10.00		

logical functions (e.g., IF,	To compare statements	RSVPAmount v X v fx =IFERROR((@AdultTickets*AdultCost)+(@ChildTickets*ChildCost)+(DiscountCost*@DiscountTickets), "")
AND, OR, NOT)	and output a true or	A B C D <u>E</u> F G
	false value (BOOL)	Adult Cost: £25.00
		Ticket Sales Child Cost: £8.00
		Discounted Cost: £10.00
		Anticipated Guest Count: 100
		Football match Total Tickets Sold:
		7 Total Ticket Sales: £8.00
data validation	N/A	N/A
relative and absolute cell referencing	N/A	N/A
boxes (e.g., lists, drop- down)	N/A	N/A

data entry forms	Where there is data in			Adult Cost:	£25.00	
	one or more cells with		Ticket Sales	Child Cost:	£8.00	
	records			Discounted Cost:	£10.00	
				Anticipated Guest Count:	100	
			Football match	Total Tickets Sold:	1	
				Total Ticket Sales:	£8.00	
			Name Adult	Child	Discounted	
			Person 1	1		
			Person 2			
			Person 3			
			Person 4			
			Person 5			
			Person 6			
lookup tables	N/A	N/A				
nested IF functions	N/A	N/A				
cell protection	N/A					
types of charts and graphs (e.g., bar, pie)	N/A	N/A				
chart and graph formatting (e.g., titles, resizing, labels)	N/A	N/A				

worksheets (e.g., headers, page breaks,	The number of pages within a workbook	11	Person 2	
links)		12	Person 3	
		13	Person 4	
		14	Person 5	
		15	Person 6	
		16		
		17		
		18		
		19		
		< >	≡ Ticket Sales +	
conditional formatting	N/A	N/A		
named ranges	N/A	N/A		
goal seek – what if	N/A	N/A		
function				
macros	N/A	N/A		



	nventory Lis									
For reorder	Inventory ID	Name	Description	Unit price	Quantity in stock	Inventory value	Reorder Level	Reorder time in days	Quantity in reorder	Discontinued?
	IN0001	Battlefield 2042	Desc 1	£51.00	100	£5,100.00	29	13	50	
	IN0002	FIFA23	Desc 2	£93.00	50	£4,650.00	231	4	50	
	IN0003	World of Warfare	Desc 3	£57.00	151	£8,607.00	114	11	150	
	IN0004	The Forrest 2	Desc 4	£19.00	186	£3,534.00	158	6	50	
	IN0005	Modern Warfare 2 Gold ultimate Edition	Desc 5	£75.00	62	£4,650.00	39	12	50	
	IN0006	Star Wars Jedi :Fallen Order	Desc 6	£11.00	5	£55.00	9	13	150	
	IN0007	Disney Infinity	Desc 7	£56.00	58	£3,248.00	109	7	100	Yes
	IN0008	Hogwarts Legacy	Desc 8	£38.00	101	£3,838.00	162	3	100	
	IN0009	Shadow of the Tomb Raider	Desc 9	£59.00	122	£7,198.00	82	3	150	
	IN0010	Star Wars Jedi :Fallen Order	Desc 10	£50.00	175	£8,750.00	283	8	150	
	IN0011	Age of The Empires IV	Desc 11	£59.00	176	£10,384.00	229	1	100	
	IN0012	Monopoly	Desc 12	£18.00	22	£396.00	36	12	50	
	IN0013	Animal Crossing	Desc 13	£26.00	72	£1,872.00	102	9	100	
	IN0014	Sniper Elite 4	Desc 14	£42.00	62	£2,604.00	83	2	100	
	IN0015	LOGO Board Game Second Edition	Desc 15	£32.00	46	£1,472.00	23	15	50	
	IN0016	Call of Duty Modern Warfare	Desc 16	£90.00	96	£8,640.00	180	3	50	
	IN0017	Star Wars : The Old Republic	Desc 17	£97.00	57	£5,529.00	98	12	50	
	IN0018	Smart Ass Board Game	Desc 18	£12.00	6	£72.00	7	13	50	
	IN0019	Black Noir Murder Escape	Desc 19	£82.00	143	£11,726.00	164	12	150	
	IN0020	Minecraft	Desc 20	£16.00	124	£1,984.00	113	14	50	
	IN0021	Apex Legend	Desc 21	£19.00	112	£2,128.00	75	11	50	
	IN0022	Red Dead Redemption II	Desc 22	£24.00	182	£4,368.00	132	15	150	
	IN0023	Grand Theft Auto V	Desc 23	£29.00	106	£3,074.00	142	1	150	
	IN0024	Final Fantasy VII	Desc 24	£75.00	173	£12,975.00	127	9	100	
	IN0025	PUBG	Desc 25	£14.00	28	£392.00	21	8	50	

Name:		
Pass		
Purposes of Spreadsheet Cost modelling	: 2: to track the latest gar	mes revenue and how popular they are
Analysis of data		
Tracking learner process		
Recording results		
League tables		
Stock control		
Use of spreadsheet softwa	re tools and techniques, e.g	g.:
Tools and techniques		
Tool / Technique	Used in Ticket spreadsheet?	Where / how?
cell manipulation (e.g.,	N/A	N/A
entering and editing data, autofilling,		
replication,		
conditional formatting		
(to highlight outcomes))		

cell formatting (e.g., colours, shading, merging cells,	Key cells have been coloured.			ventory Lis									
alignment)	Widths has been adjusted to fit text.	Fo	or reorder v	Inventory ID ~	Name ~	Description	✓ Unit price ✓	Quantity in stock	Inventory value	Reorder Lev ~	Reorder time	Quantity in reorder	Discontinued ∨
	adjusted to lit text.			IN0001	Battlefield 2042	Desc 1	£51.00	100	£5,100.00	29	13	50	
			Pi	IN0002	FIFA23	Desc 2	£93.00	50	£4,650.00	231	4	50	
	Column D., etc have			IN0003	World of Warfare	Desc 3	£57.00	151	£8,607.00	114	11	150	
	been aligned to centre			IN0004	The Forrest 2	Desc 4	£19.00	186	£3,534.00	158	6	50	
	been anglied to tentre			IN0005	Modern Warfare 2 Gold ultimate Edition	Desc 5	£75.00	62	£4,650.00	39	12		
			Po	IN0006	Star Wars Jedi :Fallen Order	Desc 6	£11.00	5	£55.00	9	13		
				IN0007	Disnoy-Infinity	Dose-7	£56.00	68	£3,248.00	100	7	100	31777
			pi	IN0008 IN0009	Hogwarts Legacy Shadow of the Tomb Raider	Desc 8 Desc 9	£38.00 £59.00	101	£3,838.00 £7,198.00	162 82	3		
				IN0009	Star Wars Jedi :Fallen Order	Desc 10	£50.00	175	£8,750.00	283	8	150	
			Dt.	IN0011	Age of The Empires IV	Desc 11	£59.00	176	£10,384.00	229	1	100	
			po	IN0012	Monopoly	Desc 12	£18.00	22	£396.00	36	12	50	
			pu	IN0013	Animal Crossing	Desc 13	£26.00	72	£1,872.00	102	9	100	
			po	IN0014	Sniper Elite 4	Desc 14	£42.00	62	£2,604.00	83	2	100	
data manipulation (e.g.,	Making sure data is	For	reorder	Inventory ID -	Name <u>✓</u>	Description <a> 	Unit price ✓	Quantity in stock	Inventory value	Reorder Lev F	Reorder time in days	Quantity in reorder	Discontinued
filters, sorts, pivot tables)	more organised												
formulae (e.g., add, subtract, divide, multiply)	N/A	N/	Д										

functions (e.g., sum,	Proform calculations	
average, count and countIF, lookup, index)	using specific data in a specific way	=IFERROR(([@[Quantity in stock]]<=[@[Reorder Level]])*([@[Discontinued?]]="")*@valHighlight,0)
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		=IFERROR(([@[Quantity in stock]]<=[@[Reorder Level]])*([@[Discontinued?]]="")*@valHighlight,0)
		=IFERROR(([@[Quantity in stock]]<=[@[Reorder Level]])*([@[Discontinued?]]="")*@valHighlight,0)
		=IFERROR(([@[Quantity in stock]]<=[@[Reorder Level]])*([@[Discontinued?]]="")*@valHighlight,0)
		Po Po
		=IFERROR(([@[Quantity in stock]]<=[@[Reorder Level]])*([@[Discontinued?]]="")*@valHighlight,0)
		Po Po
		=IFERROR(([@[Quantity in stock]]<=[@[Reorder Level]])*([@[Discontinued?]]="")*@valHighlight,0)
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		Po Po
		=IFERROR(([@[Quantity in stock]]<=[@[Reorder Level]])*([@[Discontinued?]]=*")*@valHighlight,0)
		Po Po
		Po Po
		po po
logical functions (e.g., IF, AND, OR, NOT)	N/A	N/A
data validation	N/A	N/A

relative and absolute cell referencing	N/A	N/A
boxes (e.g., lists, drop- down)	Help users filter the data	For reorder Inventory ID Name Description Unit price Name Unit price Independent of the Independent of the Independent of the Independent of Independent of Independent of Independent of Independen
data entry forms	N/A	N/A
lookup tables	N/A	N/A
nested IF functions	N/A	N/A
cell protection	N/A	
types of charts and graphs (e.g., bar, pie)	N/A	N/A
chart and graph formatting (e.g., titles, resizing, labels)	N/A	N/A

	T_, , ,										
worksheets (e.g., The number of pages meaders, page breaks, within a workbook		20 p a		INOC)17	Star Wars : The	ŗ				
links)		21	þ	INOC	18	Smart Ass Boa	rd Gam	е			
		22	р	INOC	19	Black Noir Mur	der Esc	а			
		23		INOC	20	Minecraft					
		24		INOC	21	Apex Legend		_			
		25		INOC	22	Red Dead Red	1				
		26	Р	INOC	23	Grand Theft Au	ıto V				
		77		INOC	24	Final Fantagy	лі				
		< → ≡ Inventory List +									
conditional formatting	Helps make patterns	lefield 2042	Desc 1	£51.00	100	£5,100.00	29	13	50		
	and trends better to see	23	Desc 2	£93.00	50	£4,650.00	231	4	50		
		d of Warfare	Desc 3	£57.00	151	£8,607.00	114	11	150		
		Forrest 2	Desc 4	£19.00	186	£3,534.00	158	6	50		
		ern Warfare 2 Gold ultir		£75.00	62	£4,650.00	39	12	50		
		Wars Jedi :Fallen Order	Desc 6	£11.00	5	£55.00	9	13	150		
		ey Infinity	Dese-7	£56.00	58	£3,248.00	100	7	100 Yes		
		warts Legacy	Desc 8	£38.00	101	£3,838.00	162	3	100		
		dow of the Tomb Raider Wars Jedi :Fallen Order	Desc 9 Desc 10	£59.00	175	£7,198.00 £8,750.00	82 283	3	150 150		
		of The Empires IV	Desc 11	£59.00	176	£10,384.00	229	1	100		
		opoly	Desc 12	£18.00	22	£396.00	36	12	50		
		nal Crossing	Desc 13	£26.00	72	£1,872.00	102	9	100		
		er Elite 4	Desc 14	£42.00	62	£2,604.00	83	2	100		
		O Board Game Second	Edition Desc 15	£32.00	46	£1,472.00	23	15	50		
		of Duty Modern Warfare	Desc 16	£90.00	96	£8,640.00	180	3	50		
named ranges	N/A	N/A									
goal seek – what if function	N/A	N/A									
Tutiction											
macros	N/A	N/A									

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Merit

Review how the features (e.g., Functions, layout and structure) could improve productivity, accuracy and usability in both spreadsheets. Explain how the tools using in this spreadsheet make it easier than using pen and paper.

The spreadsheet has some productive layouts which mean that it can be more productive than pen and paper. It has over 400 functions default which makes calculating easier. You can add subtract multiply and divide easier compared to pen and paper. You can improve productivity by not only making tables but adding filters to make it easier to understand. Using conditional formatting to organise the data and use colour coding to see trends in data. Not only that, but you can also convert data to graphs. You can alter fonts and make things the way you like, you can't do that with pen and paper. You can type as many numbers as you want as you can tell the computer to calculate the amounts for you. You are limited on paper as you can make mistakes. You can do things such as data manipulation, name ranges, cell formatting etc. Tools in spreadsheets make it easier to manage and store data rather than pen and paper as you can put as much as you want in the workbook, not only that, but you can also have multiple worksheets for multiple purposes in the one excels file.

Distinction

Discuss both strengths and weaknesses of both spreadsheets.

Strengths

- 1. Football match ticket sales spreadsheet
- Data organisation: data is organised and easy to read
- Calculations: using formulas to calculate easily for total ticket sales
- Budgeting and forecasting: can predict and estimate number of people attending
- Sharing: easy to share to different people and beneficial
- 2. Game inventory list (gaming company)
- Easy to use easy to input games and data, easy to read
- Data organisation: excel provides tools to filter data and sort data

- Simple collaboration: people within the company that has access doesn't need to be trained to use the spreadsheet and can easily use it
- History tracking: can keep historical data for the games and can help to understand how the games evolved over time
- Conditional formatting: this allows to show data with a particular trend

Weaknesses

1. Football match ticket sales spreadsheet

- Data entry errors: human error during data entry leads to inaccuracies in sales and calculations of ticket sales as well as customer information
- Limited scalability: may have trouble handling large data sets
- 2. Game inventory list (gaming company)
- Scalability: excel not suited for very extreme number of datasets
- Version control: managing different versions of the same file can be challenging and leads to confusion
- Concurrency issues: excel may not be able to handle multiple team members to enter data all at the same time, conflicts therefore may arise
- Limited automation; may not provide a level of automation required for advanced game development
- Dependency on spreadsheet skills: effective use of spreadsheets requires skills from experts that know excel to a
- Having more than 1 copy: same games at a different price may lead to confusion and possible inequalities