

Assessment Event 2: Project 1 - Spreadsheets

Due: Week 6/at the end of Unit 6
Time Allowed: Approximately 6 weeks
Weighting: 35%

INSTRUCTIONS TO STUDENTS

This assessment event is made up of two practical exercises on which you will work in class, at home or during independent study. Each week, you should bring your work to class and show your teacher.

PART A: Using formulas to solve problems - 15%

Scenario:

You have been asked to prepare a spreadsheet that will show the mobile phone usage costs for an average number of calls for a month for different mobile plans offered by mobile phone providers. This spreadsheet will then allow you to identify which mobile plan will best suit different types of mobile users.

Half marks may be awarded

Criteria	Marks
Design and Create your Spreadsheet:	
1. Create a new folder on your desktop (or other location specified by your teacher). Call this folder <i>Assessment Events</i> .	1
2. Design and create the following spreadsheet so that all the information can be easily seen.	4

Spreadsheet data to be entered:

Average Calls per month 200
Average length of call (mins) 2
Average SMS per month 150

Mobile Company	Plan Cap	Extras	Included Call Credit	Flagfall cost	Call rates per min	SMS Rates
Optical Mobile	\$49.00	Free to other Optical Mobile. 200MB data included.	\$450.00	\$0.35	\$0.90	\$0.25
Optical Mobile	\$29.00	Free to other Optical Mobile users on Saturdays and Sundays only. No data included.	\$70.00	\$0.35	\$0.90	\$0.25
Optical Mobile	\$79.00	Free to other Optical Mobile. Unlimited SMS. 2 GB data included.	\$800.00	\$0.35	\$0.90	\$0.25

Westend Mobile	\$19.00	Free to other Westend Mobile users from 8pm-12pm and Saturdays and Sundays. 100 MB data included.	\$50.00	\$0.40	\$0.99	\$0.28
Westend Mobile	\$39.00	Free to other Westend Mobile users. 500 MB data included.	\$300.00	\$0.40	\$0.99	\$0.28
Westend Mobile	\$59.00	Free to other Westend Mobile users. 2 GB data included.	\$600.00	\$0.40	\$0.99	\$0.28
Volt Mobile	\$79.00	Free to other Volt Mobile users. Unlimited SMS. 2 GB data included.	\$800.00	\$0.38	\$0.95	\$0.30
Volt Mobile	\$19.00	Free to other Volt Mobile users. 50 MB data included.	\$70.00	\$0.38	\$0.95	\$0.30
Volt Mobile	\$29.00	Free to other Volt Mobile users. 250 MB data included.	\$180.00	\$0.38	\$0.95	\$0.30
Tess Mobile	\$49.00	Free to other Tess Mobile users. 250 MB data included.	\$550.00	\$0.35	\$0.90	\$0.25
Tess Mobile	\$19.00	Free to other Tess Mobile users. 100 MB data included.	\$70.00	\$0.35	\$0.90	\$0.25
Tess Mobile	\$79.00	Free to other Tess Mobile users. 1 GB data included.	\$1,200.00	\$0.35	\$0.90	\$0.25

3.	Save your spreadsheet as Mobile Costs .	1
4.	Add as a main heading - Mobile Cost Analysis .	1
5.	Resize and format the columns (including the headings) so that the spreadsheet is well-balanced on one page only.	1
6.	After SMS Costs , add the following headings: <ul style="list-style-type: none"> • Monthly Phone Cost • Monthly SMS Cost • Total Monthly Cost • Actual Monthly Cost 	1
7.	Format the appropriate columns to currency.	1
8.	Create a Header with your name and a Footer with <i>Print 1</i> .	1
9.	Calculations to be done: Add the following formulas: <ul style="list-style-type: none"> • Monthly Phone Cost = Average Calls per Month multiplied by the Flagfall cost PLUS Call rates per min multiplied by the Average Calls per month multiplied by the Average length of call (mins) LESS the Included Call Credit (Hint: don't forget to use an Absolute Reference) 	4

Criteria	
<ul style="list-style-type: none"> Monthly SMS Cost = <i>Average SMS per month</i> multiplied by the <i>SMS Rates</i> (Hint: don't forget to use an Absolute Reference) Total Monthly Cost = <i>Monthly Phone Cost</i> PLUS <i>Monthly SMS Cost</i> Actual Monthly Cost = use an IF formula that will calculate the following: If the <i>Total Monthly Cost</i> is greater than the <i>Included Call Credit</i>, display the <i>Total Monthly Cost</i> otherwise display the <i>Plan Cap</i>. 	
10. Save and Print a copy of your spreadsheet.	1
Edit your spreadsheet: Carry out the following amendments and additions to your spreadsheet:	
11. Format the spreadsheet to Arial, 11 pt	1
12. Format the main heading <i>Mobile Cost Analysis</i> to Arial, 18pt and center the heading over all the columns. Bold the Column headings.	2
13. Sort the spreadsheet by Mobile Company and then Plan Cap .	2
14. Edit the following data: <ul style="list-style-type: none"> Change the Optical Mobile <i>Plan Cap</i> of \$29.00 to \$19.00. Change the Volt Mobile <i>Call rates per min</i> from \$0.95 to \$0.98 for all three Volt Mobile Plan Caps. 	4
15. Add a border line above and below the Headings row.	1
16. Change the Footer to <i>Print 2</i> , and save your spreadsheet.	1
17. Print a copy of your spreadsheet.	1
18. Change the Footer to <i>Print 3</i> and print your spreadsheet showing formulas. Note: Close the spreadsheet without saving.	2
Raw Mark	30
FINAL MARK (Raw Mark/30 ÷ 2)	15