**Logical and lookup functions: Test your skills**

**TOTAL POINTS 12**

1.

Question 1

To do this assessment you should download this Excel workbook, follow the instructions, and answer the questions.

[C1W5 Assessment.xlsx](https://d3c33hcgiwev3.cloudfront.net/zM35qJfkT-eN-aiX5F_nhw_d60e3923fb8d41fcb7c6cd7d237192e2_C1W5-Assessment.xlsx?Expires=1628899200&Signature=EuAM4Sa2IQLbl2g~SQlnlqy3oEvrmwZXYScZjGz7ShnobR5-8d3tQQzijJYAs5eJl7vrIAvl4e4tg5pVhDzesluZ-hE9MkvyBzb6fwJC~wxdlBLt8cTaEC31qbWtpMbd3CIJ042u5ondsbM9hMDORcyCCLQ8xiiPYIiOAbCt9kY_&Key-Pair-Id=APKAJLTNE6QMUY6HBC5A)

On the **Attendees** sheet is a table showing people who will be attending our next event. We wish to include a welcome pack for people who are relatively new. In **K7** create a calculation to check if the **Start Date** is on or after the date shown in **U14**, if it is put the text **New** in the column, otherwise leave it blank (do not put space or FALSE). Because it is a table your calculation automatically copies down. What is the number of new people as shown in **W14**?

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**45**

2.

Question 2

**IF** functions allow for a maximum of three arguments.

1 point



**TRUE**

3.

Question 3

We wish to give a gift to loyal members. In **L7** create a calculation to put the value **Gift** in the cell if the attendee joined before 2016 or has attended 6 or more events, otherwise leave it blank. What is the total number of gifts required as shown in **U24**?



**202**

4.

Question 4

The organisers have decided that they cannot afford so many gifts, change the formula so that it only returns **Gift** if the attendee joined before 2016 **and** they have attended a minimum of 6 events. What is the updated number of gifts required as shown in **U24**?



**41**

5.

Question 5

Prices for the event are shown in **V7:V8**, people attending for just one day pay $350, but people attending more than one day pay $300 per day (i.e. someone attending 3 days pays $900). Column **N** tells us how many days they will be attending. Create a calculation in **O7** that will check how many days they are attending and calculate the correct cost accordingly. What is the total cost for all attendees as shown in **U25**?



**$230,050**



6.

Question 6

Discounts are awarded to loyal members. People who have attended 10 or more events get a 20% discount off the full price, people who have attended between 5 and 9 events (inclusive) get a $50 discount off the full price. If an attendee does not qualify for a discount, they pay full price.

In Column **P** calculate the price after discount, e.g. for someone attending for 1 day who has attended 6 events, the **After Discount** price will be $300. What is the total **After Discount** price as shown in **U26**?

1 point



**$212,260**

7.

Question 7

Attendees are awarded a status based on how many events they have attended as shown in **T19:U22**. Attendees who have attended 1-9 events get **Bronze**, 10-19 **Silver**, 20-29 **Gold** and 30+ get **Platinum**. In column **M** use a calculation to determine each attendee’s status. What is the total number of **Silver** attendees as shown in **V20**?

1 point



**72**

8.

Question 8

When using an approximate (or Range) **VLOOKUP** the last argument is optional but when using an exact match **VLOOKUP** the last argument must be set to **FALSE** or **0**.

1 point



**TRUE**

9.

Question 9

Column **F** contains the organisation code for each attendee. Use this information to lookup the **Organisation name** from the list provided in the **Lookup Lists** sheet. (We suggest using defined names or tables to make this easier.) How many attendees are from **Colot** (shown in **V15**)?



**5**

10.

Question 10

The country code for each attendee is shown in Column **H**. Use this information to lookup the **Country name** from the list provided in the **Lookup Lists** sheet. (We suggest using defined names to make this easier.) How many attendees are from the **United States** or **United Kingdom** (shown in **V16**)?



**111**

11.

Question 11

In question 10 you had to look up the **Country Name**. This could be done using an **XLOOKUP** or a combination of **VLOOKUP** and **MATCH**.



**FALSE**

12.

Question 12

There are 7 seating areas labelled A to G. Seats are allocated according to country of origin and type of meal as shown in the lookup matrix in the **Lookup Lists** sheet. E.g. a vegan from Armenia will be allocated to seating area A. Create a calculation in Column **R** to look up the correct seating area for each attendee. How many people are allocated to **area F** (as shown in **U34**)?



**62**