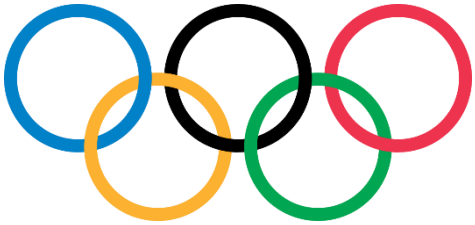
Olympic Countback!

Student Name: Answers

Introduction

The Olympic Games, whilst postponed for 2020, are set to take place in Tokyo 2021. The first modern summer Olympic Games were in held in Athens, Greece in 1896. Since then, every 4 years (with a few breaks along the way) a summer Olympic Games has been held.

Your challenge today is to complete a data analysis on athlete participation data in Table 1. from some of the most recent Olympic Games.



Data

Table 1. Athlete Attendance at Olympic Games

Olympic Year	Host City	Female Athletes	Male Athletes	Total Athletes
1956	Melbourne	893	4234	5127
1960	Rome	1435	6684	8119
1964	Tokyo	1348	6354	7702
1968	Mexico City	1777	6811	8588
1972	Munich	2193	8111	10304
1976	Montreal	2172	6469	8641
1980	Moscow	1756	5435	7191
1984	Los Angeles	2447	7007	9454
1988	Seoul	3543	8494	12037
1992	Barcelona	4124	8853	12977
1996	Atlanta	5008	8772	13780
2000	Sydney	5431	8390	13821
2004	Athens	5546	7897	13443
2008	Beijing	5816	7786	13602
2012	London	5815	7105	12920
2016	Rio	6223	7465	13688

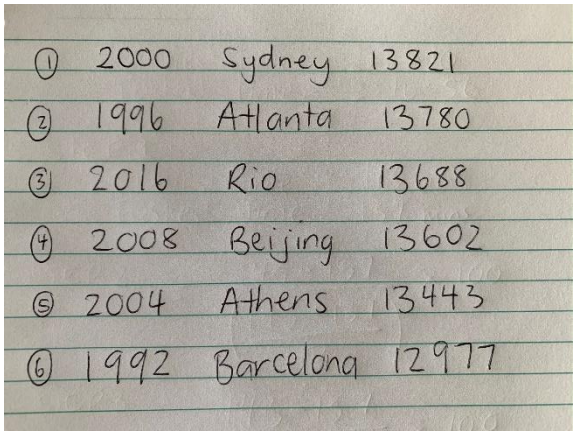
Before you start

The following question will require you to think about different strategies you could use to solve the problems.

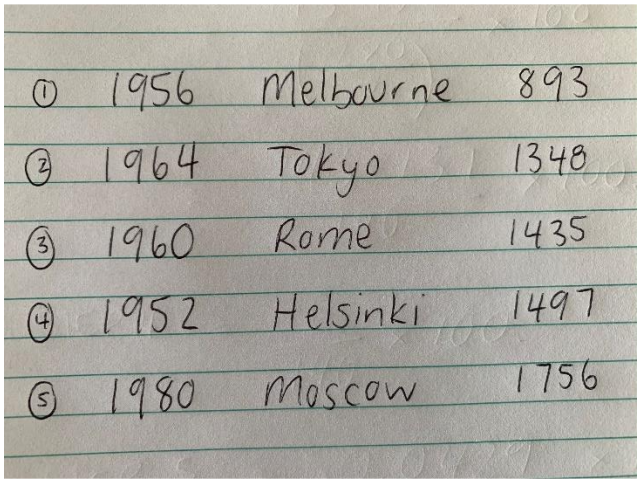
Complete your working out on a blank piece of paper, take a picture and then paste that picture into the picture box for the question. This will allow your teacher to see your strategies and give you feedback on each question.

Data Analysis

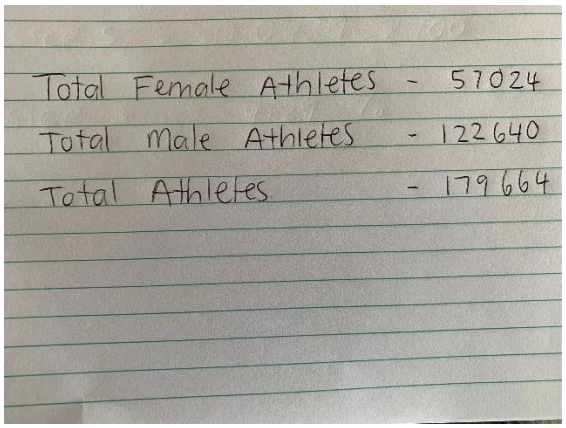
1. The more recent Olympic Games has seen more athletes attending.
   a) Calculate the total number of athletes for each Olympic Games in table 1. *(Enter this data into the last column of table 1).*
   b) Organise the six most attended Olympic Games in descending order.
   HINT: Descending means going down e.g. highest to lowest.



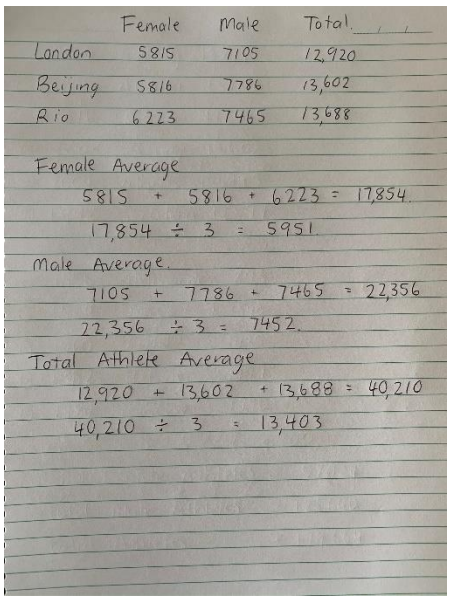
2. The Olympic Games haven't always been open to both male and female athletes. Women were only allowed to participate from 1900 onwards. Using the data in table 1.place the five least attended Olympic Games by female athletes in ascending order.
   HINT: Ascending means going up e.g. lowest to highest.



3. Calculate the total number of all female athletes in table 1. Do the same for all male athletes. Finally, do the same for the total athletes column.



4. The Tokyo 2021 Olympic Games organisers believe that the athlete numbers will be lower than Rio, 2016 due to the current COVID-19 situation. Make a prediction of the athlete attendance at Tokyo 2021 by taking the average (mean) of the past three Olympic Games (Rio, London, Beijing). HINT: round to the nearest whole number.



5. Use the data in table 1. to come up with you own question. Make sure you show your question, working out and the solution in the picture below.