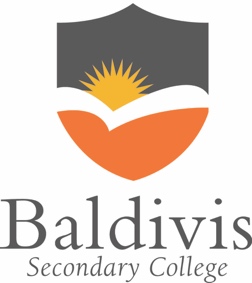
**Year 12 Essentials - Timezone and Co-ordinates Investigation**

**2 Periods in class – Week 6, Term 3.**

Lucky you! Your boss at Fudgem Industries has chosen you to fly around the world to four of the international Fudgem offices, located in Cape Town, Singapore, Beijing, Rome, London, New York, California, **Rio de Janeiro or Casablanca.**  You will then make a presentation about this years new Fudge line to the offices.

**You need to choose which four offices you wish to visit and you will need to organise to visit them in a sensible order so that you circumnavigate around the globe without backtracking between the cities.**

You will need to spend an entire day presenting the new range at each office and then fly to the next city. One of the four cities you visit will need to be Rome as you have family there and it is a good excuse to see them.

You have been given a frequent flyers card that gives you $100 cashback for every 1000 kilometres that you travel. You will need to calculate how many kilometres each flight will be and the total number of kilometres you will travel so you can check the frequent flyers points are correctly added to your account.

Fudgem have hired a logistics company, that uses drones to deliver their samples. These need to be programmed with the GPS Co-ordinates for each city you visit, given as a (North/South, East/West).

Your boss has also asked for you to phone in each day at 4pm Perth time after each presentation to pass any feedback and response from each presentation you make.

Finally your family in Rome will meet you at the airport for a coffee 2 hours before you fly out of Rome and your mother wants you be part of the conversation using facetime. She needs you to tell her what time and day it will be (in Perth time) so she can call you as it happens.

You will need to;

1. Create an itinerary of your flights starting at Perth and going to each of the four major cities you choose, allowing yourself a full day at each city (Flights start in Perth and during this trip you need to circle the globe, arriving back in Perth from the opposite direction).
2. Record the arrival and departure times and dates.
3. Find the distance of each flight
4. Workout the correct time to call your boss in Perth
5. Find out when your mother needs to be ready so she can facetime with you and your family at Rome Airport
6. Find the co-ordinates of each city so the logistics company delivers the Fudge product line sample kits to the correct city.

**Ensure that you present all information in an appropriate manner, that is clear to read.**

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