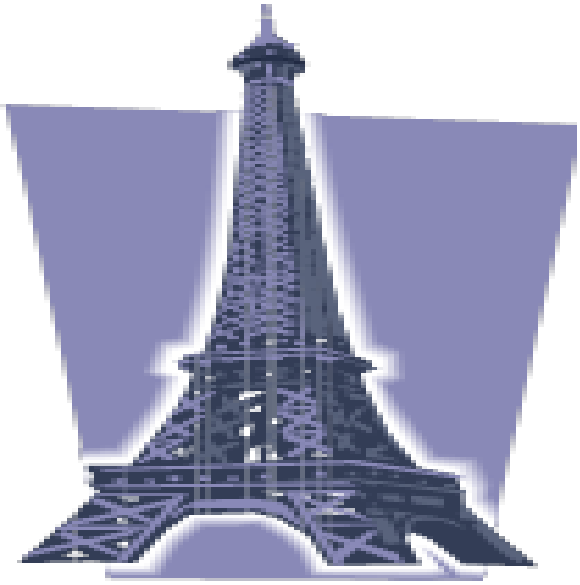


Ratio and Proportion

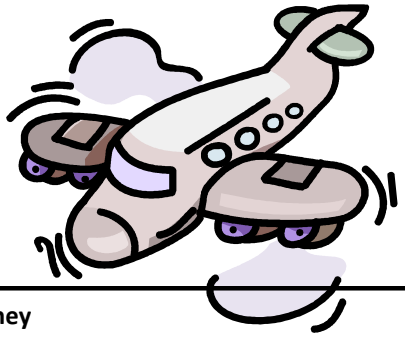
I am going on a long trip this summer. I will be spending my time between four countries:

England, France, Canada and Australia.

Your job is to solve the different problems related to my trip, in pairs. At the end of the booklet, you will have the opportunity to create a poster highlighting what you have found regarding my trip

Name: _____

Planning and Booking the Vacation



Destinations:

I will be spending my summer holiday, England to France to Canada to Australia, represented by the following ratio in days

14:7:21:21

Simplify this ratio to its simplest form.

_____:_____:_____:_____

I have spent £1600 on flights, in the following ratio (England to France: France to Canada: Canada to Australia)
1:3:4

Work out how much I spent on each flight.

England to France:

France to Canada:

Canada to Australia:

Spending Money

I have budgeted £6300 for the 9 weeks of my vacation. I will split my spending money equally, according to the number of weeks spent in each location.

Work out the number of weeks spent in each country, leave in ratio form.

_____:_____:_____:_____

Work out the amount of spending money, in pounds, I will have in each country. Leave your answer in ratio form.

_____:_____:_____:_____

Converting Money

Create a conversion graph for each currency (in class tutorial for that), on the next page. This will help you with more problems further down the line (you will have 3 conversion graphs in total).

Now that you know how much money, in pounds, I will be bringing to each country, use the exchange rate table/ currency conversion graphs to work out the amount of local money I will have.

GBP:

Euros:

CAD:

AUD:

Exchange rate table

Conversion	1 GBP =
GBP-> EUR	€1.24
GBP-> CAD	$1.59
GBP-> AUD	$1.52

Meanings:

GBP– Great Britain Pounds

EUR-Euros

CAD-Canadian Dollars

AUD– Australian dollars

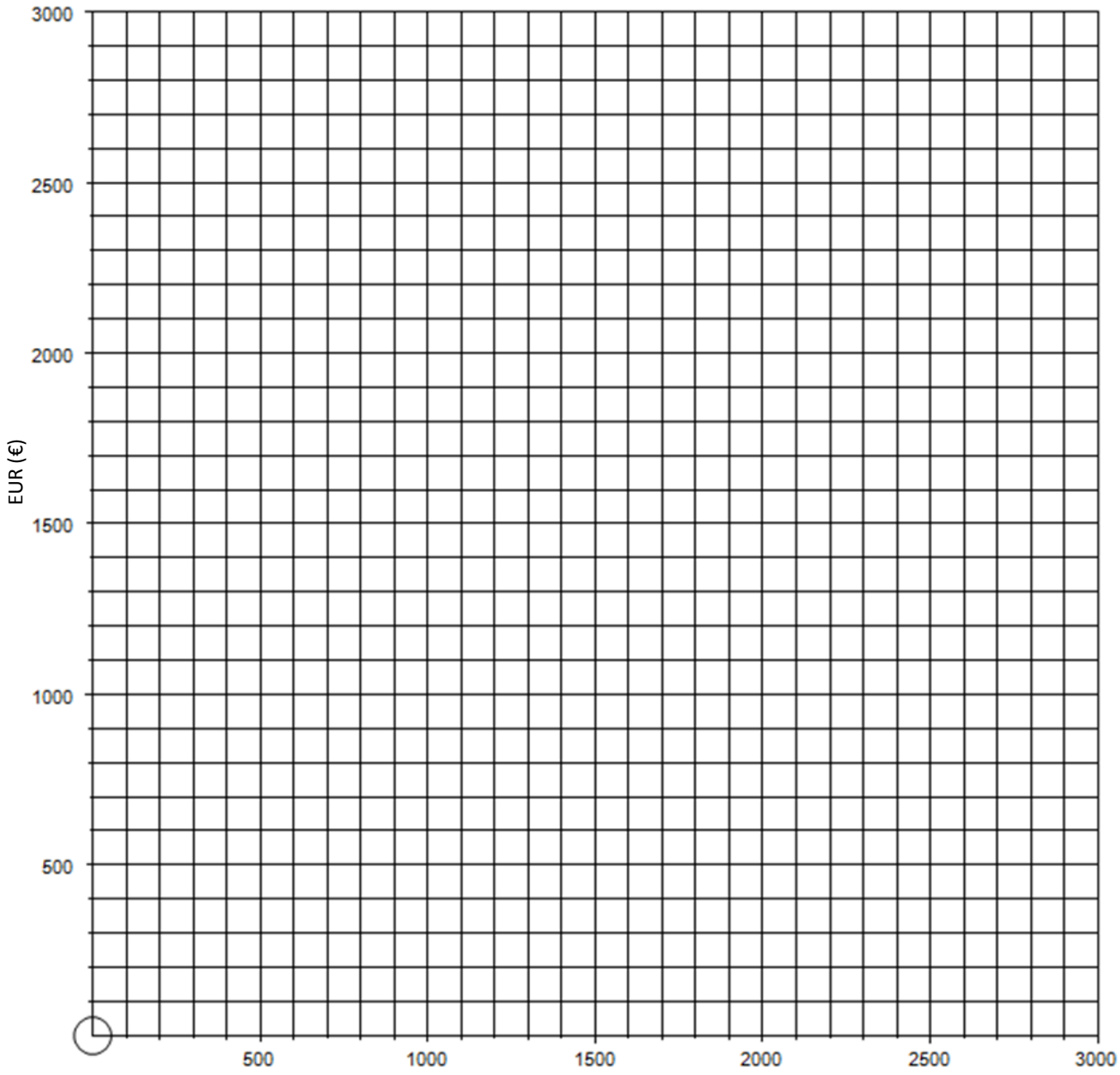
Working out Page

Exchange rate:

£1 GBP = €1.24

GBP	EUR
500	
1000	
1500	
2000	
2500	
3000	

GBP-> EUR Conversion Graph



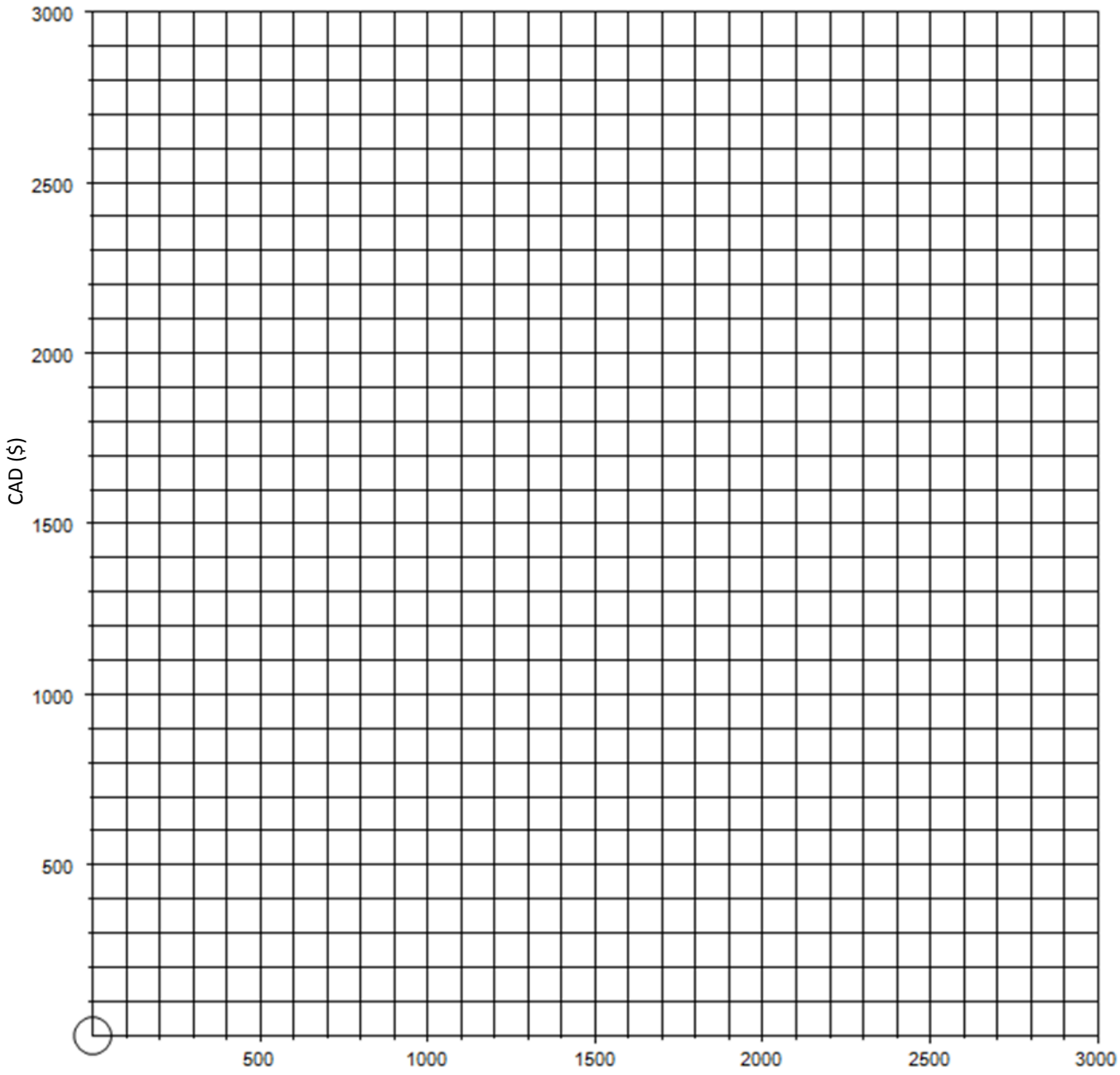
Working out Page

Exchange Rate:

£1 GBP = $1.52 CAD

GBP	CAD
500	
1000	
1500	
2000	
2500	
3000	

GBP-> CAD Conversion Graph



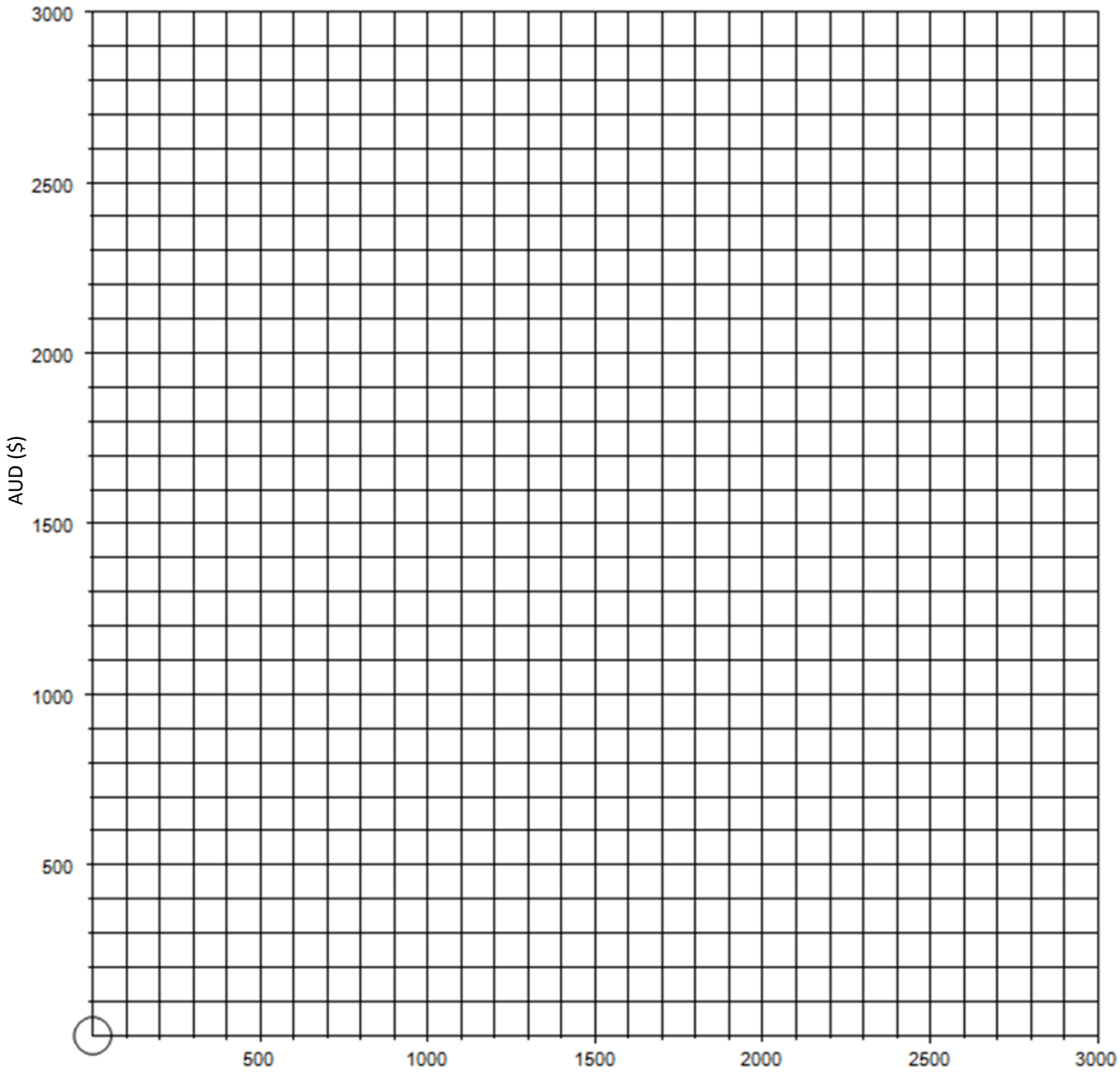
Working out Page

Exchange rate:

1 GBP = $1.59 AUD

GBP	AUD
500	
1000	
1500	
2000	
2500	
3000	

GBP-> AUD Conversion Graph



Working out Page

In Transit

Luggage:

The maximum allowance for my luggage is 50kg and two bags.

I pack a medium sized bag and a large bag, which can hold weight in the ratio 2:3

What is the maximum weight for each bag?

_____:_____

Medium : Large

In the large bag, I pack jumpers, t-shirts and shorts in the ratio of weight 1:4:1. What is the weight of each set of clothing I am taking?

_____:_____:_____

Jumpers : t-shirts : shorts

In the small bag, I pack shoes, trousers and sleepwear in the ratio 2:6:2. What is the weight of each set of clothing I am taking?

_____:_____:_____

Shoes : trousers : sleepwear

On the airplane

The airplane seats are grouped in a ratio of 2:3:2. There are 350 people on the seats, and each flight attendant is responsible for one group of people. How many people is each flight attendant responsible for?

_____:_____:_____

First : second : third (attendant)

The meals are pre-cooked, and there are three dishes to choose from. Beef, chicken and vegetarian. If they are pre-cooked to be served in the ratio 2:2:1, how many of each meal will there be?

Beef:

Chicken:

Vegetarian:

Each person is allowed 3 complimentary drinks per flight; hot drinks, soft drinks, water and alcoholic beverages.. People order them in the ratio 5:3:10:3.

Work out how much of each beverage is served.

Working out Page

In Transit

On the airplane

The distances between each country are given below. If the average speed of an aircraft is 450 miles per hour, work out the flight time between each pair of cities

Cities	Travel time
London->Paris: 214 Miles	
Paris->Calgary: 4584 Miles	
Calgary -> Sydney: 8170 Miles	

If there are 5 films offered per hour of flight, state the number of films for each flight.

London -> Paris:

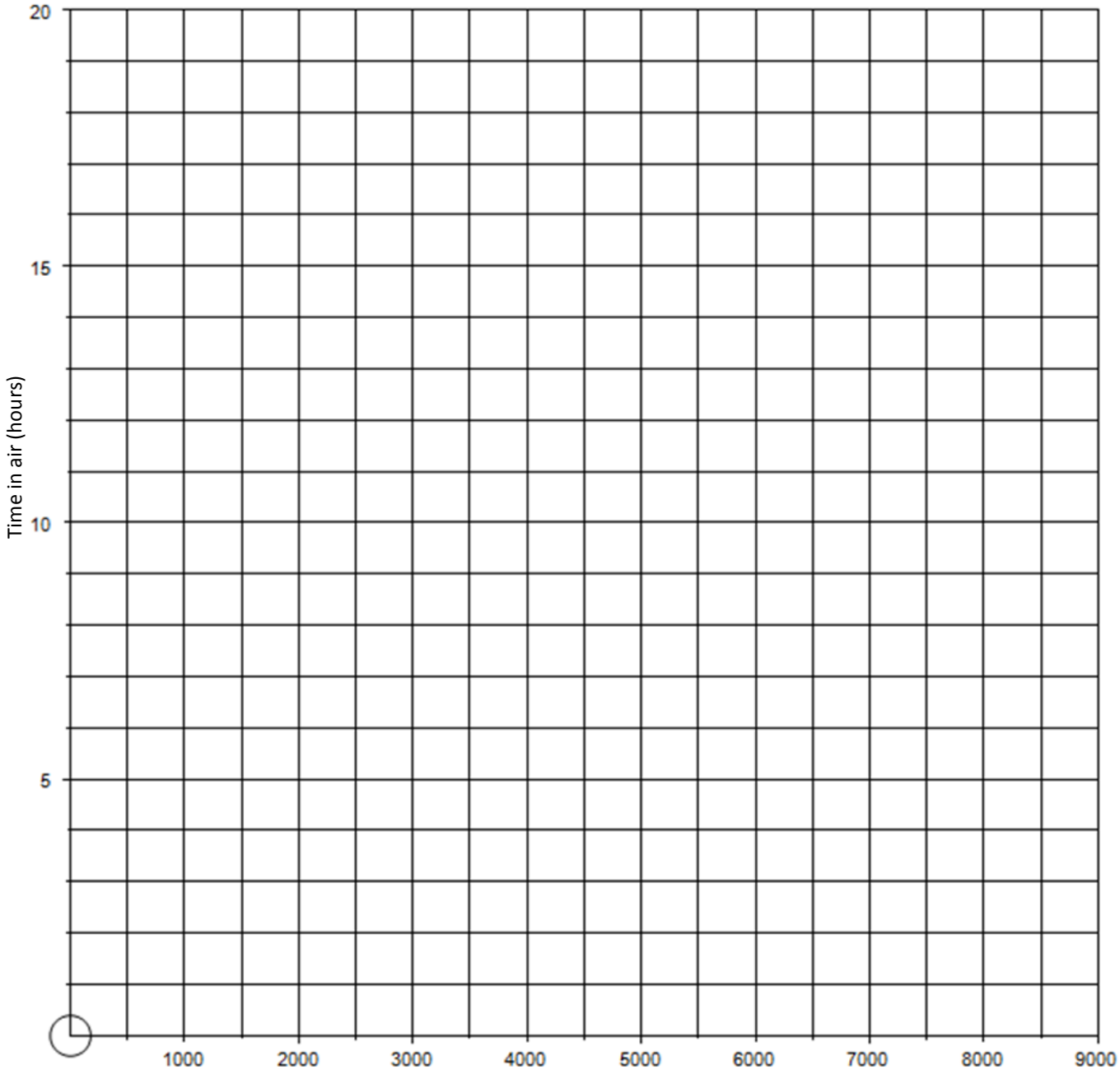
Paris -> Calgary:

Calgary->Sydney:

Working out Page

Plot a distance-time graph of the average amount of time for flights of different lengths. This should be a straight line graph.

Average flight time



Working out Page

Accommodation and Food

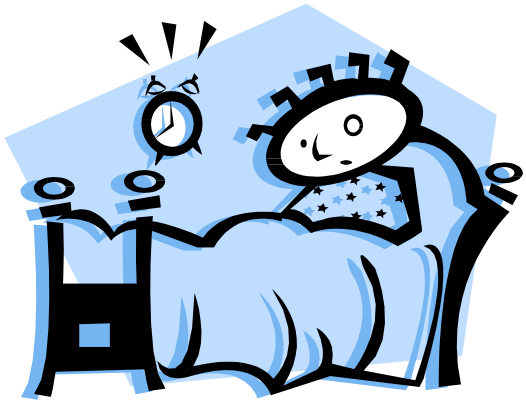
Food

Over the holiday, I plan to spend £1890 on eating out. I plan to spend my money in the ratio breakfast to lunch to dinner, 1:2:3.

How much will I spend for breakfast, lunch and dinner for the entire trip?

How much will I spend daily for each course?

Extension: How much will I have spent in each country in local currency?



Accommodation

I have budgeted a total of £3150 to spend on accommodation for my trip. I plan to spend it in proportion to the number of nights I am spending in each country. Using the information from the number of nights I am staying, list in GBP how much money I will spend on accommodation over my holiday:

_____:_____:_____:_____

(England:France:Canada:Aus)

Now, use your currency conversion charts to determine the amount in local money I will spend in each country:

_____:_____:_____:_____

(England:France:Canada:Aus)

Working out Page

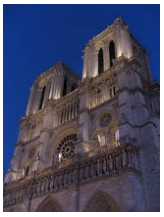
Activities

My activities have all been quoted, by a travel agent, in local currency

Using your conversion graphs, or any other method, determine how much in GBP each activity will cost. And a total amount for each countries activities in local currency and GBP.

England

Activity	GBP
Thorpe Park	£34.50
Indoor Skydiving	£23.50
Double Decker	£19.00
Tower of London	£19.50
Madame	£22.50
London Dungeon	£24.00
Total:	



France

Activity	GBP	Local currency
Champagne vineyard tour		€99
Louvre Museum		€14
Camping at Grande dune du Pyla		€28
Notre Dame Cathedral		€7.50
Total		

Canada

Activity	GBP	Local currency
Royal Tyrell Dinosaur Museum		$11.00
Indoor Waterpark		$36.95
Natural Hot springs in the Rockies		$15.00
Calgary Olympic Park		$29.00
Capilano Suspension		$34.00
Total		

Australia

Activity	GBP	Local currency
Surfing Lessons		$145
Skydiving		$120.00
Race Track		$58.00
Sydney Harbour		$79.20
Total		

How much will my activities cost, in total (GBP)?

Working out Page