Marking Rubric For Flights “The Great Race”

|  |  |  |
| --- | --- | --- |
| BEHAVIOURS | MARKS ALLOCATED | MARKS AWARDED |
| Leave after 2 pm 17/11 | 1 |  |
| **FLIGHT 1** |  |  |
| Fastest/Earliest (Brisbane – 3:15pm Tigerair) | 1 |  |
| Same Day (17/11) | 1 |  |
| Actual Flight | 1 |  |
| Departure Time + Flight Time | 1 |  |
| + Time Difference (DLS) | 1 |  |
| **FLIGHT 2** |  |  |
| Stopover between F1 & F2 (at least 1 hr) | 1 |  |
| Fastest/Earliest (F/Thru from where landed)) | 1 |  |
| Actual Flight | 1 |  |
| Departure Time + Flight Time | 1 |  |
| + Time Difference | 1 |  |
| **FLIGHT 3** |  |  |
| Stopover between F2 & F3 (at least 1 hr) | 1 |  |
| Departure Time + Flight Time (F.T.) | 1 |  |
| **FLIGHT 4** |  |  |
| Stopover between F3 & F4 (at least 1 hr) | 1 |  |
| Departure Time + Flight Time | 1 |  |
| + Time Difference | 1 |  |
| Final Arrival Date | 1 |  |
| Full Table of Entries | 1 |  |
|  | 18 |  |

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| + Time Difference | 1 |  |
| Final Arrival date | 1 |  |
| Full Table of Entries | 1 |  |
|  | 18 |  |

**Marking Key – Great Race**

**Itinerary**

**(18 marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Flight | From | To | Departure Time  (local time) | Departure Day/Date | Arrival Time  (local time) | Arrival Day/Date |
| 1 | Sydney | Brisbane | 3:15 pm | Sat 17/11 | 3:45 pm | Sat 17/11 |
| 2 | Brisbane | Perth | 5:30 pm | Sat 17/11 | 9:10 pm | Sat 17/11 |
| 3 | Perth | Beijing | 10:10 pm | Sat 17/11 | 7:04 am | Sun 18/11 |
| 4 | Beijing | New York | 8:04 am | Sun 18/11 | 8:29 am | Sun 18/11 |

**B1 Coordinates of Perth: 32° S 116° E**

**Coordinates of Beijing: 40° N 116° E**

**B2** D = x 2 x π x 6370 = 8004.8 km (Accept 8005) F.T.

**B3** 8004.8 ÷ 900 = 8.9 hrs (8 hrs 54 mins)

**B4** 8004.8 x 12 = 96057.6 L F.T.

**B5** F.T.

**C1** New York

**C2** 8 ahead for Beijing

5 behind for New York

**C3** 13 hours