**LAB 5 Answer sheet**

**EX1:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Vancouver Harbour** | | **Okanagan Centre** | |
| Year | Maximum Temperature ⁰C | Total precipitation  mm | Maximum temperature ⁰C | Total precipitation  mm |
| 2020 | 20.7 | 0 | 27 | 0 |
| 2019 | 22.5 | 0 |  |  |
| 2018 | 22.0 | 0 |  |  |
| 2017 | 19.6 | 0 |  |  |
| 2016 | 18.5 | 15.6 |  |  |
| 2015 | 24.8 | 0 |  |  |
| 2014 | 19.7 | - |  |  |
| 2013 | 18.1 | 1 |  |  |
| 2012 | 21.0 | 0 |  |  |
| 2011 | - | - |  |  |
| 2010 | 16.3 | - |  |  |
| 2009 | 18.3 | 0.2 |  |  |
| 2008 | 20.7 | 0 |  |  |
| 2007 | 22.1 | 0.2 |  |  |
| 2006 | 20.4 | - |  |  |
| 2005 | 23.4 | 6 |  |  |
| 2004 | 27.8 | 0 |  |  |
| 2003 | 17.7 | - |  |  |
| 2002 | 25.9 | 0 |  |  |
| 2001 | 24.9 | 0 |  |  |
| 2000 | 21.5 | 0 |  |  |
| 1999 | 17.9 | 2.8 |  |  |
| 1998 | 23.5 | 0.2 |  |  |
| 1997 | 16.6 | 21.8 |  |  |
| 1996 | 22.8 | 0 |  |  |
| 1995 | 20.1 | 0 |  |  |
| 1994 | 23.7 | 0 |  |  |
| 1993 | 16.3 | 3.2 |  |  |
| 1992 | 28.4 | 0 |  |  |
| 1991 | 16.1 | 0.2 |  |  |
| **Mean** | 24.8 | 1.1 |  |  |

1. a) Mean precipitation at Okanagan Centre

1. b) Mean temperature at Okanagan Centre

2. What are these numbers telling you about the advisability of holding the wedding at Vancouver Harbour vs. Okanagan Centre?

**EX2**

3. Probability of it raining on June 21 at Vancouver Harbour.

4. Probability of it raining on June 21 at Okanagan Centre.

5. Probability of temperatures exceeding 30 ⁰C on June 21 at Vancouver Harbour

6. Probability of temperatures being less than 20 ⁰C on June 21 at Vancouver Harbour

7. Probability of temperatures exceeding 30 ⁰C on June 21 at Okanagan Centre

8. Probability of temperatures being less than 20 ⁰C on June 21 at Okanagan Centre

9. Based on your responses to the above questions, what are your conclusions about where to hold the wedding?

**EX3:**

10 and 11. Please cut and paste graphs here.

12. Are there any trends here? Your opinion will be a little subjective, but try to be as objective as possible. We know from data all over the world that climate change is real. Explain your results in that context.

13. On the basis of climate trends, do you have any reason to adjust your thinking about the probability of rain or extreme temperatures in Vancouver?