

Name:

Date:

**Understanding Air Quality for the Whole Day**

Look at the map of air quality measurement stations at <https://cyclone.unbc.ca/aqmap/v3/#4/50.32/-78.22> to see real data for your Province/Terriroty now. We’ve provided an example set of data below for you to use to answer these questions.

1. Use the following data to answer questions 1 and 2:

|  |  |
| --- | --- |
| Time | PM2.5 (g m-3) |
| 6:00 am | 2 |
| 7:00 am | 2 |
| 8:00 am | 1 |
| 9:00 am | 2 |
| 10:00 am | 1 |
| 11:00 am | 3 |
| 12:00 pm | 3 |
| 1:00 pm | 4 |
| 2:00 pm | 5 |
| 3:00 pm | 5 |
| 4:00 pm | 4 |
| 5:00 pm | 4 |
| 6:00 pm | 3 |
| 7:00 pm | 3 |
| 8:00 pm | 3 |

1. What is the highest observation (the “maximum”)? g m-3
2. What is the lowest observation (the “minimum”)? g m-3
3. What is the most common observation? g m-3

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Shape

Description automatically generated with medium confidence

1. The average (or “mean”) PM2.5 level is calculated as the **sum of all the PM2.5 values**, divided by the **number of observations**.
2. What is the sum of all the PM2.5 values?
3. How many observations are reported in the table?
4. What is the average PM2.5 level?

g m-3

Show your work:

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