



## Analysis



Have a look at the data you have collected. Write the answers to these questions in your books.

1. What do you notice? Write down five pieces of information from your data.
2. Find your row in the table. Is the amount you drink typical?
3. Are there any students who stand out because they drink a lot or a little of one kind of drink?
4. What is the most common drink? What is the least popular drink? Draw a graph that shows the popularity of each type of drink.
5. Which student drinks the most? Which student drinks the least? Draw a graph to show how many drinks each student drinks in a day. Can you show this in a more summarised way?
6. What would you predict the typical amount of sugar a student drinks in one day to be now?
7. Draw a graph or graphs to show the number of drinks each student drinks in a day. Can you show this in a more summarised way?
8. How would you describe the spread of the data?
9. What is the 'average' number of drinks for the students in your sample? Give a reason you why you think this.

Here is some information about the amount of sugar in g for one cup or glass of each type of drink. One teaspoon of sugar weighs about 4g.

10. Why do you think the amount of sugar per cup of Tea/Coffee and Hot Chocolate/Milo columns are incomplete? What will you do about this?
11. How are you going to use this table to work out the typical amount of sugar a student drinks in a year?
12. In a table (see below), record the amount of sugar each student drinks in a year.
13. Draw a graph of this information. You may have to draw several graphs to show all the information.

|                | Water | Fruit juice | Cordial | Fizzy drink | Diet fizzy drink | Sports drink | Milk -not flavoured | Smoothie or shake | Tea or coffee | Hot Chocolate or Milo | Other | TOTAL Yesterday | TOTAL for Year |
|----------------|-------|-------------|---------|-------------|------------------|--------------|---------------------|-------------------|---------------|-----------------------|-------|-----------------|----------------|
| Sugar in grams | 0     | 26          | 25      | 27          | 0                | 24           | 11*                 | 22                | 0+ _          | 10+ _**               | 20*** |                 |                |
| student        |       |             |         |             |                  |              |                     |                   |               |                       |       | g               | kg             |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
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|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
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|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |
|                |       |             |         |             |                  |              |                     |                   |               |                       |       |                 |                |

14. Is the amount of sugar you consume in drinks typical? Are you in the middle clump, the middle of the range?
15. How would you describe the spread of the data?
16. What is the 'average' amount of sugar a student drinks in a year? Give a reason you why you think this.

In your books record your thoughts about your graphs using these sentence starters:

I noticed that...

I wondered if... (What do you wish you had information on?)

## Conclusion



In your books answer the question in the problem section: Is the amount of sugar drunk in a year by an typical student in your class or CensusAtSchool likely to be 6kg?

Remember to give reasons based on what you found out in your investigation.