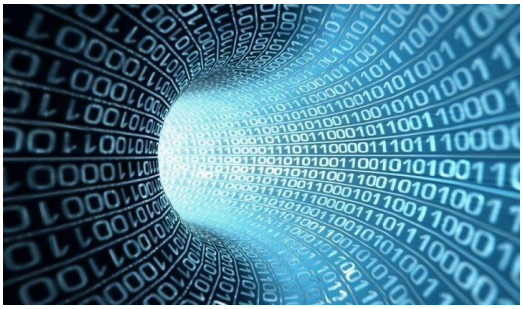
Name: _____Ch 5 Organization of Data – 5.1 MDM 4U1

5.1 Data Concepts and Graphical Summaries



There's a large amount of data flowing around the world. In 2012 alone, almost 3 *zeta*bytes (i.e. 3 trillion gigabytes, or 3 x 10^{21} bytes) were moved and stored online. It helps to be able to classify the kinds of data we are examining, so that we can make meaningful comparisons.

A. Categories! Consider the types of information, below:

a) Number of siblings
b) Heights of students
c) Country of birth
d) Learning skills on your report card

1. What are some general similarities or differences between a) - d) ? Can you group any similar items together? What is your reasoning for your groupings?

2. How are data from a) and b) similar? What general name could you give to these kinds of data?

3. How are a) and b) different? Explain.

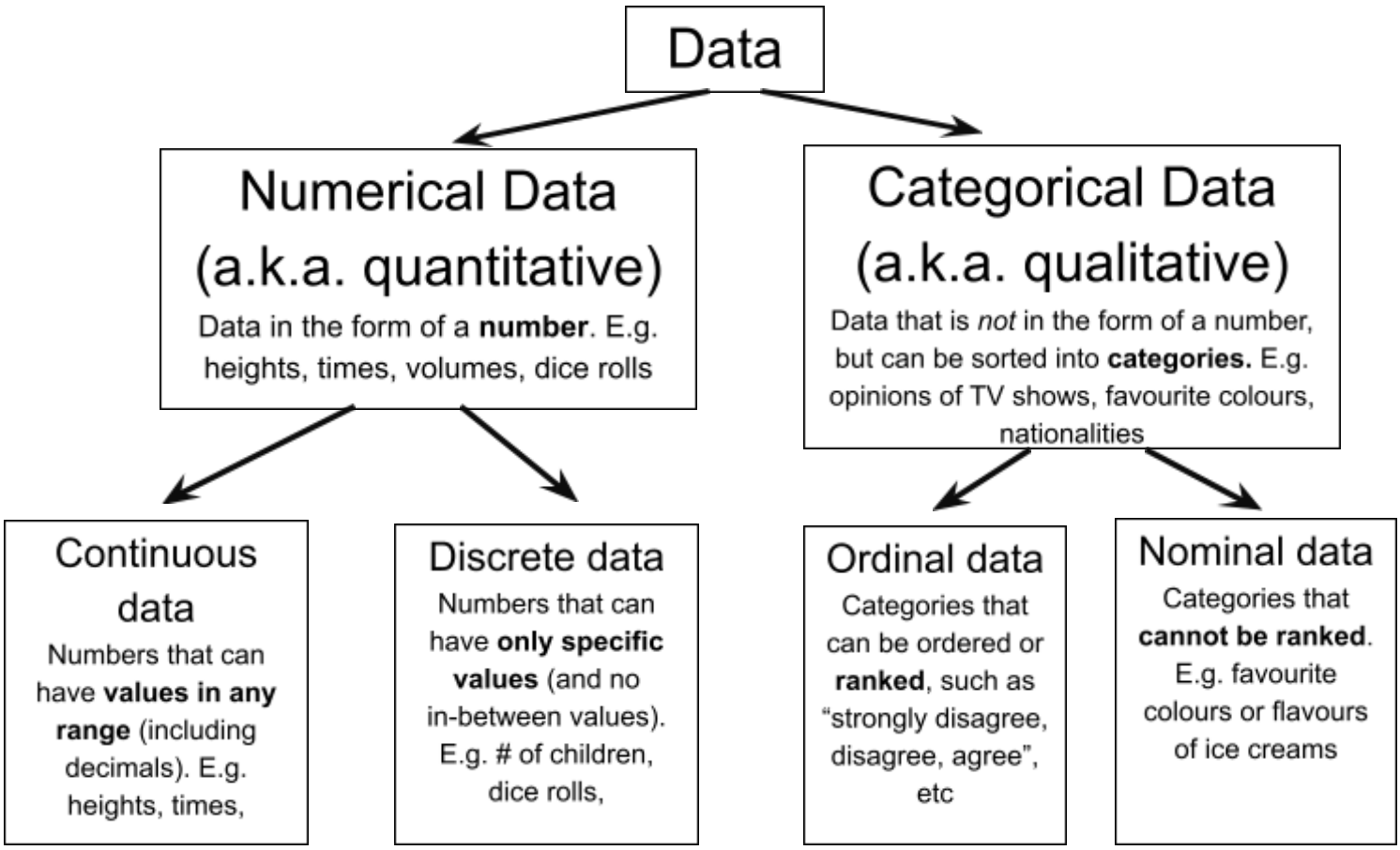
4. How are c) and d) similar? What general name could you give to these kinds of data?

5. How are c) and d) different? Explain.

Name: _____Ch 5 Organization of Data – 5.1 MDM 4U1

--stop here and check in with your teacher before continuing----

As you may have discovered, we can separate data into a few types:



Use the classifications above to **classify** the four types of data from the first page. (Include the **main** category and **sub**category, e.g. "categorical ordinal")

a) Number of siblings
b) Heights of students
c) Country of birth
d) Learning skills on your report card

B. <u>Practice.</u> Classify each of the following:

1. A survey asks people to rate their concerns about online privacy from 1 – 5.
2. A survey asks 1000 people how many hours of TV they watch.
3. The number of condo units in an apartment building.
4. The sorting of songs in your song collection by genre.
5. The number of chocolate chips found in cookies.
6. The brand of refrigerators that students have at home.

Name: _____Ch 5 Organization of Data – 5.1 MDM 4U1

7. The volumes of carbon dioxide produced each day.
8. A survey asking people to rate their experience of the last superhero movie.

Check with teacher, then 5.1 HW pg 203 # 1, 2