

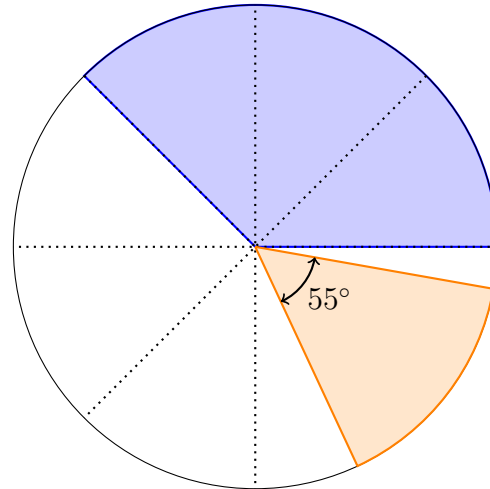
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11.6 Classwork: Data visualization with pie charts

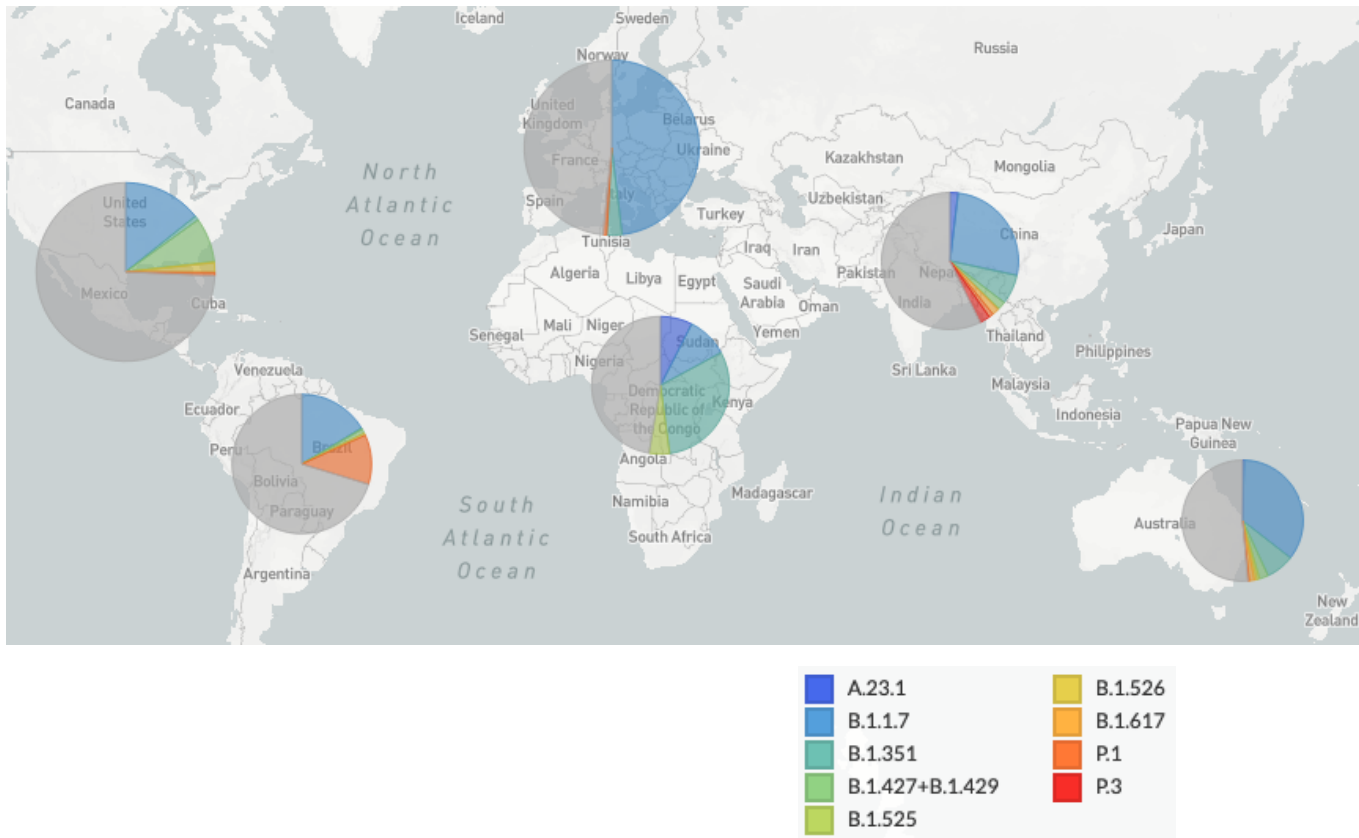
1. The *pie chart* below shows the proportion of two subsets of a population, one represented in blue and one in orange. Dotted lines divide the circle in eight equal sectors for reference.

(a) Estimate the area of the blue sector as a fraction of the circle and as a decimal.

(b) The central angle of the orange sector measures 55° . Find the fraction of circle's area shaded orange as a fraction and a decimal.

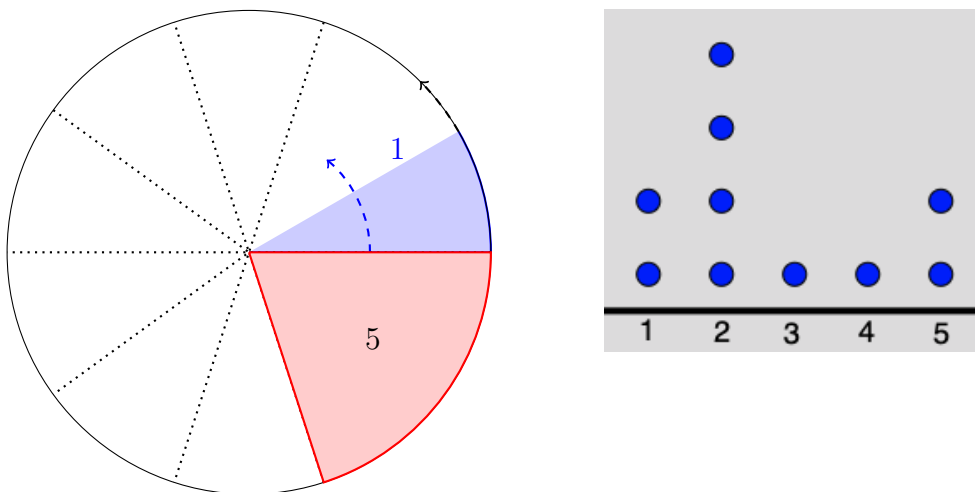


2. We use circle sectors (pie charts) to communicate. This map shows the most important of the 3991 coronavirus variants as they evolve across the world.
 - (a) In Europe, estimate the proportion of covid-19 identified as B.1.1.7 (light blue).
 - (b) In South America, which is more prevalent B.1.1.7 or P.1 (light orange)?
 - (c) In North America, what proportion of samples remain “unassigned” (gray)?



3. Ten values from one to five are displayed as a dot plot below on the right.

The data is to be represented as a *pie chart*. The red sector has been drawn to represent data with value equalling five. (Dotted lines divide the circle in ten equal sectors for reference.)



- Shade the appropriate portion of the pie chart in blue to represent the data with value equalling one.
- Complete the rest of the pie chart using other colors to mark sectors for the data

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equalling two, three, and four.