

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Lab TI-Nspire™ icebreaker eye color

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DEG APPRX REAL

[www.myteacherpages.com/webpages/dbarnes](http://www.myteacherpages.com/webpages/dbarnes)

Goal: Participants will analyze eye color data with the TI-Nspire™ calculator using lists and graphs. It is the intent of this activity to provide a relatively easy and quick “ice-breaker” introduction to the use of the Nspire™ calculator.

**Step 1: Collect data**

The instructor(s) will create categories for eye color on a writing surface in the classroom and each participant will tally their eye color on the chart generated by the teacher.

Amber (a)	Brown (br)	Blue (bl)	Green (gr)	Grey (gy)	Hazel (h)

We will analyze this data on the Nspire.

**Step 2: Data analysis**

Home

New Document

Add Lists and Spreadsheets

Click

Use the navpad to go to the A cell at the top left corner of the spreadsheet and type **eyecolor**. This defines our data. Use the navpad to go to the first data cell 1 below. Do not type anything into the diamond (formula) row.

In the data cells below enter the eye color data.

If there was one person with amber (a) eyes, place an **a** in the first cell. If there were 10 people with brown (**br**) eyes, type **br** sequentially in each of the next 10 cells pressing navpad down after each entry. Continue the process until you have entered the abbreviations representing the tallied numbers for each eye color in the A column according to the abbreviation assigned in the chart (**a, br, bl, gr, gy or h**).

Graphical analysis of data from eye color tally:

Home

Data and Stats

Click

Use the navpad to move the arrow to the bottom of the screen and click on the box. Select **eyecolor** and Click.

This is a **dot plot** of the data from the data we entered.

We will now copy the page so that we can modify it.

Control navpad up (takes us to thumbnail sketches of screens).

Control and Menu

Copy, click

Control and Menu

Paste, click

Control navpad down (returns us to a regular view of screen).

Menu

Plot Type

Navpad right or click

Select **Bar chart** and click.

Using the arrow to click on a bar shows its # of cases and % of total data.

We will now copy the page again so that we can modify it.

Control navpad up (takes us to thumbnail sketches of screens).

Control and Menu

Copy, click

Control Menu

Paste, click

Control navpad down (returns us to a regular view of screen).

Menu

Plot Type

Navpad right or click

Select **Pie chart** and click.

Using the arrow to click on a bar again shows its # of cases and % of total data.

### **Step 3: Conclusions**

Which eye color is considered dominant (most frequent) according to the data provided?

Which eye color is considered recessive (least frequent) according to the data provided?

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