

Inquiry #5

Communicate the procedures and results of investigations and explanations through: oral presentations, drawings and maps, data tables (allowing for the recording and analysis of data relevant to the experiment such as independent and dependent variables, multiple trials, beginning and ending times or temperatures, derived quantities) graphs (bar, single line and pictograph), writings and use data as support for observed patterns and relationships to make predictions to be tested.

Data Collection

All graphs **MUST** have these 4 points to be considered correct

- *A title that reflects IV vs. DV

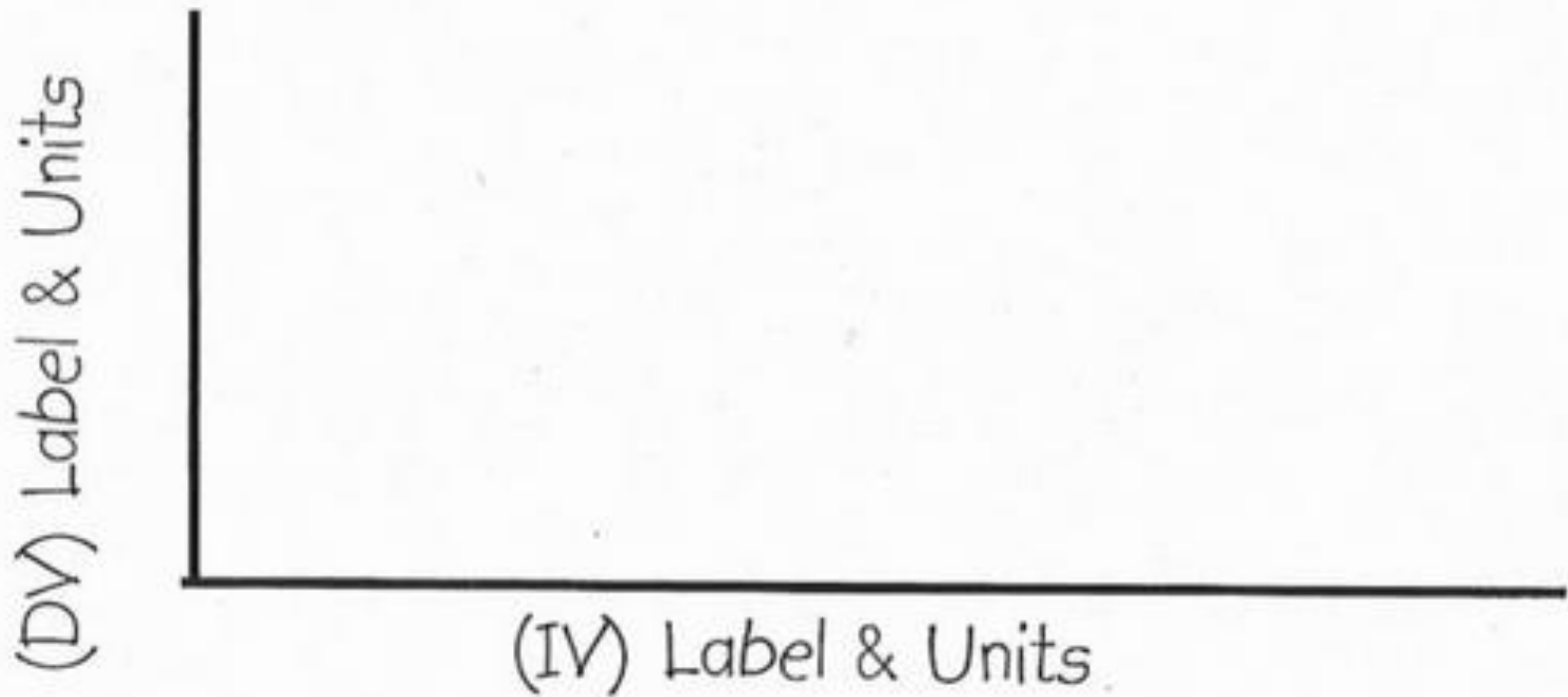
- *All axes have both labels and units (X-axis IV and Y-axis is DV)

- *Scale used has evenly spaced intervals on **BOTH** axes

- *Data plotted correctly (including making the correct type of graph)

Graphing Data

Title: "The Study of (IV) on (DV)"



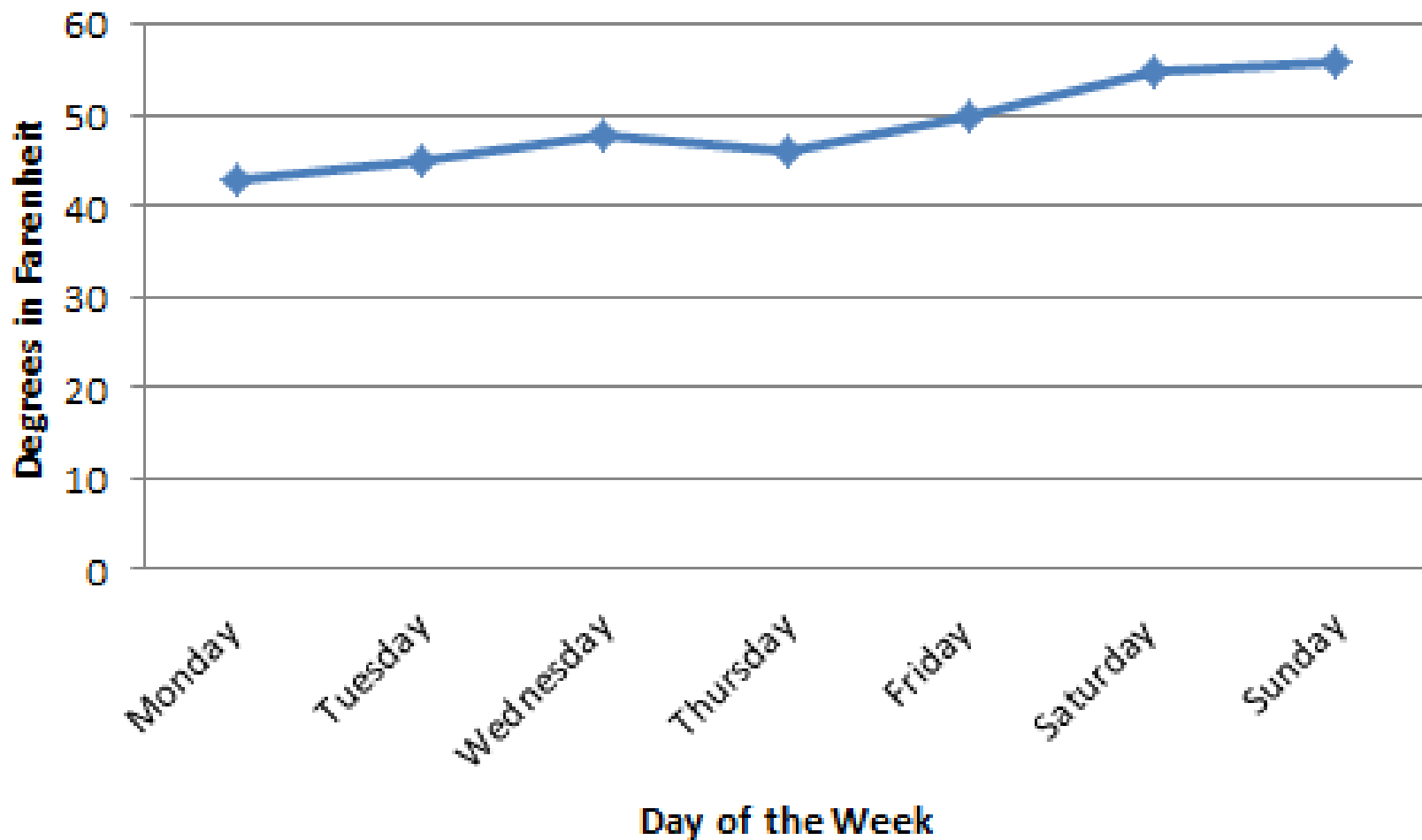
Flag Chart to Collect Data

Write IV Here	Write DV Here			
	Trial 1	Trial 2	Trial 3	Avg

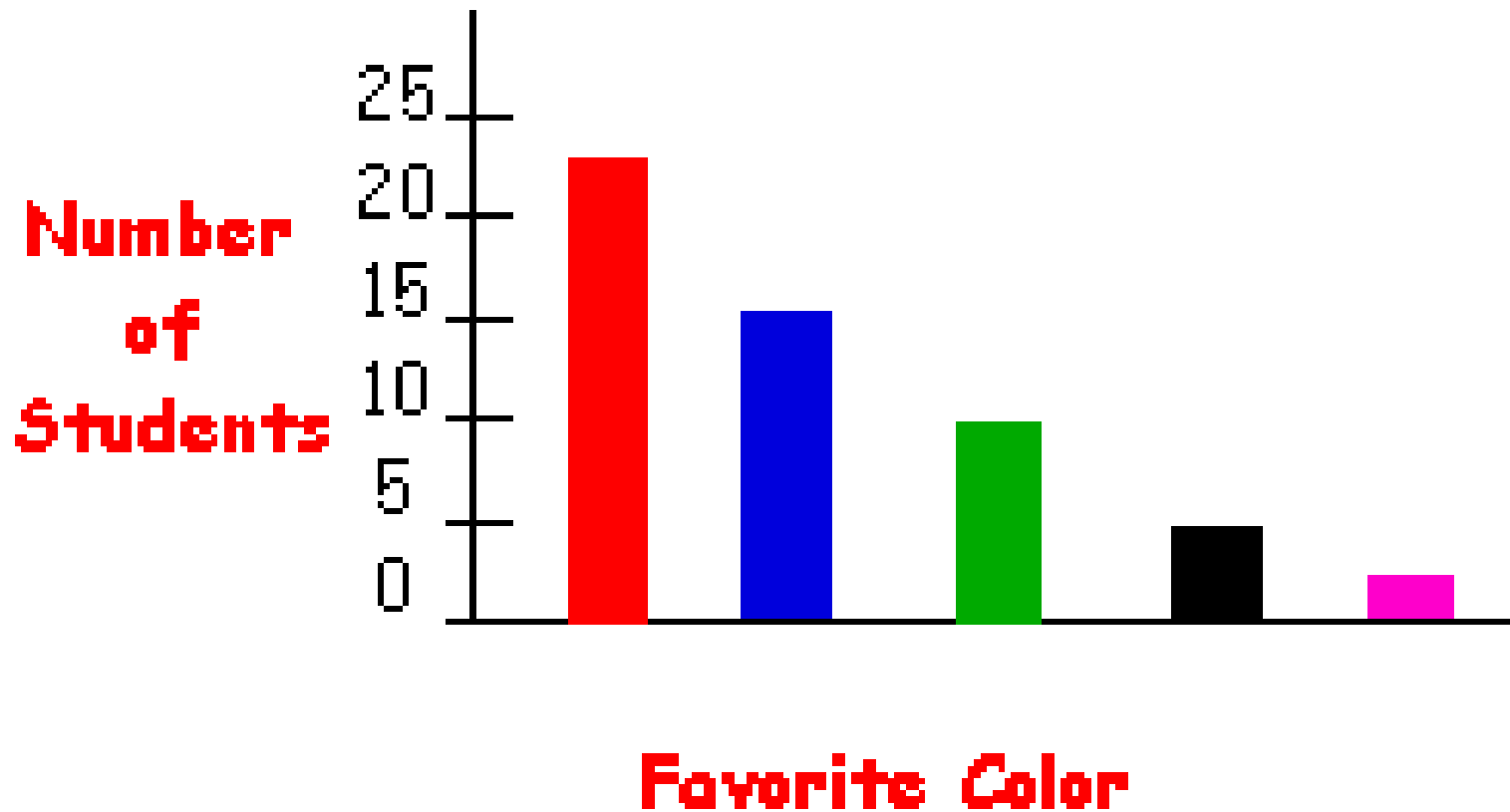
**Look at the following graphs
and figure out what is missing.**

Checklist for constructing both line and bar graphs

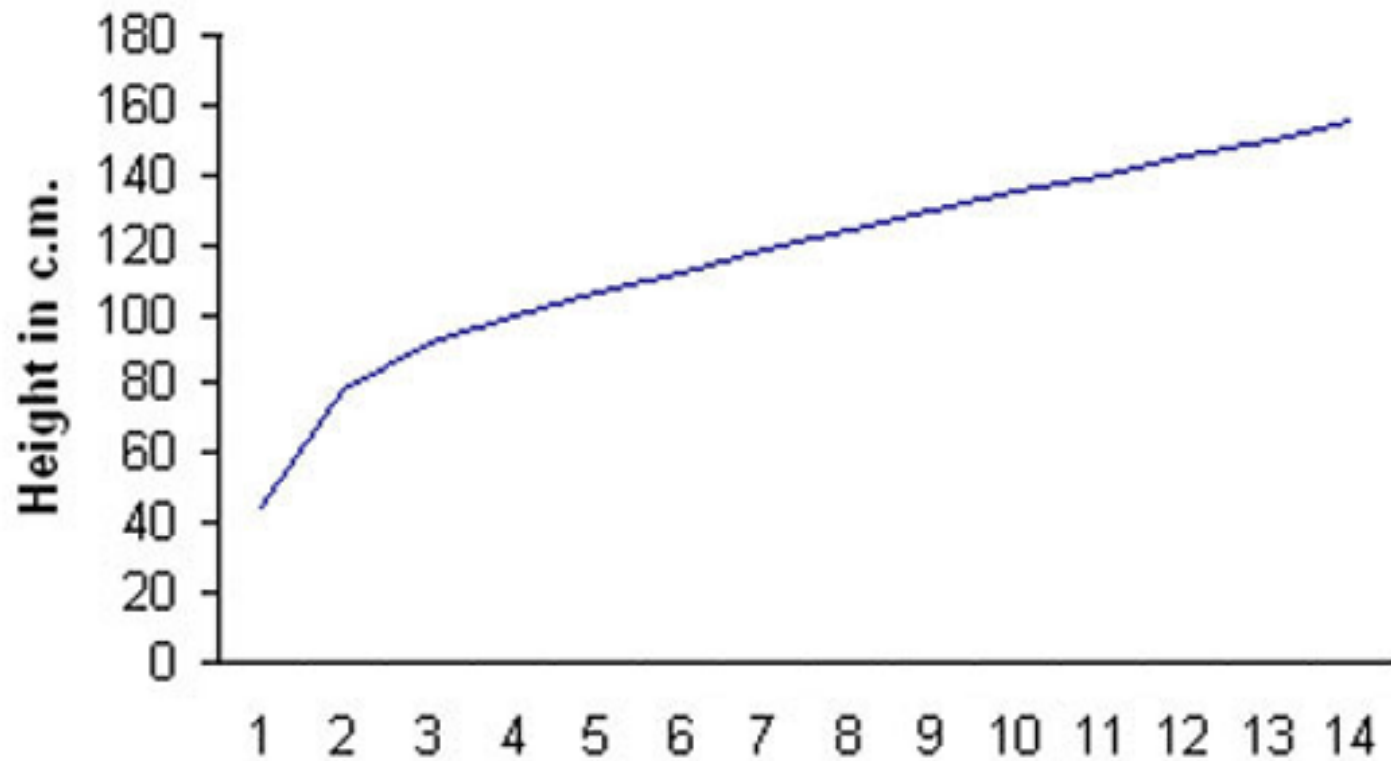
- **Title**
- **x-axis correctly labeled**
- **y-axis correctly labeled**
- **x-axis subdivided into appropriate scale**
- **y-axis subdivided into appropriate scale**
- **Data correctly plotted**

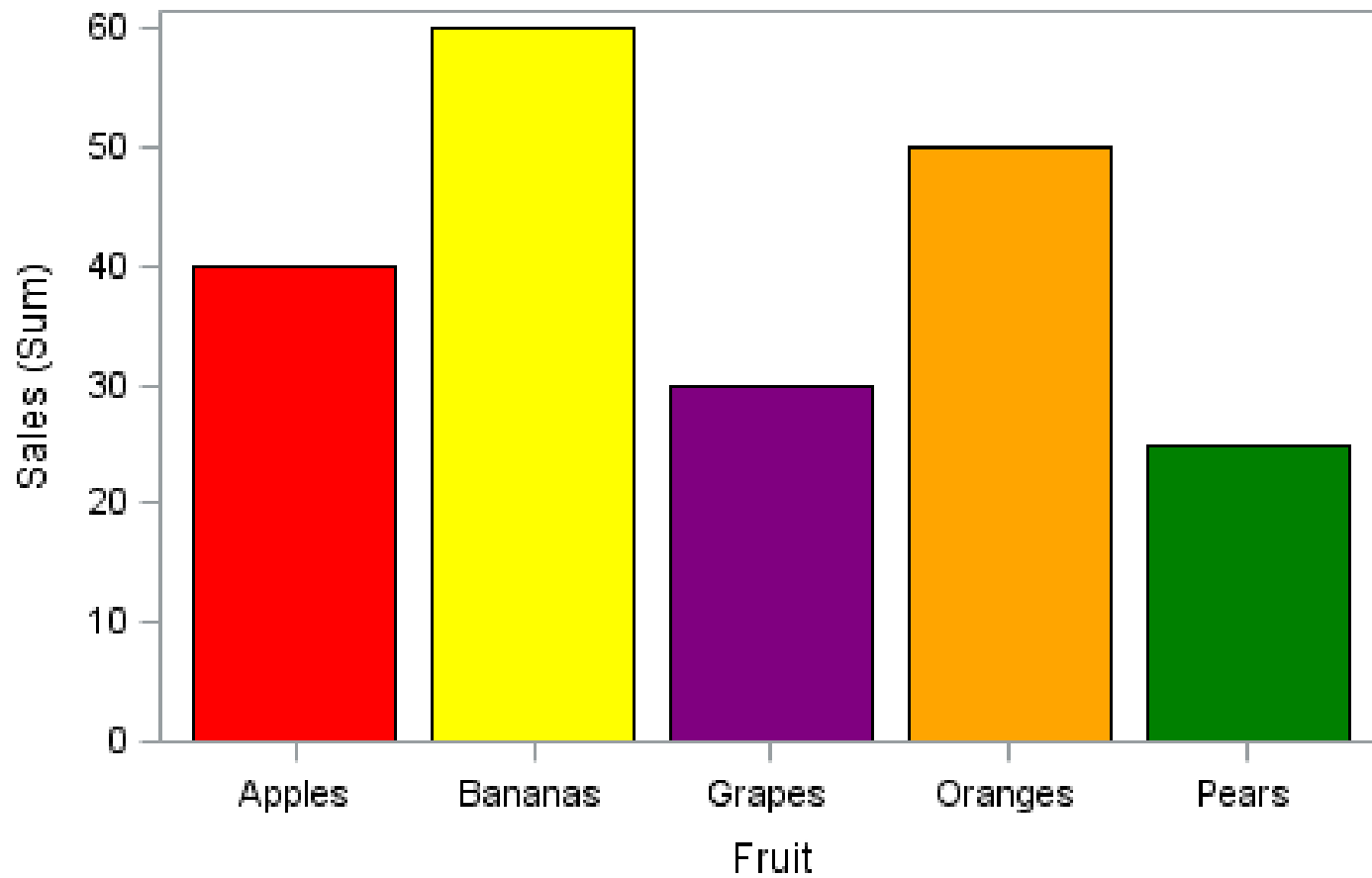


Student's Favorite Color



Average Height of Male Children

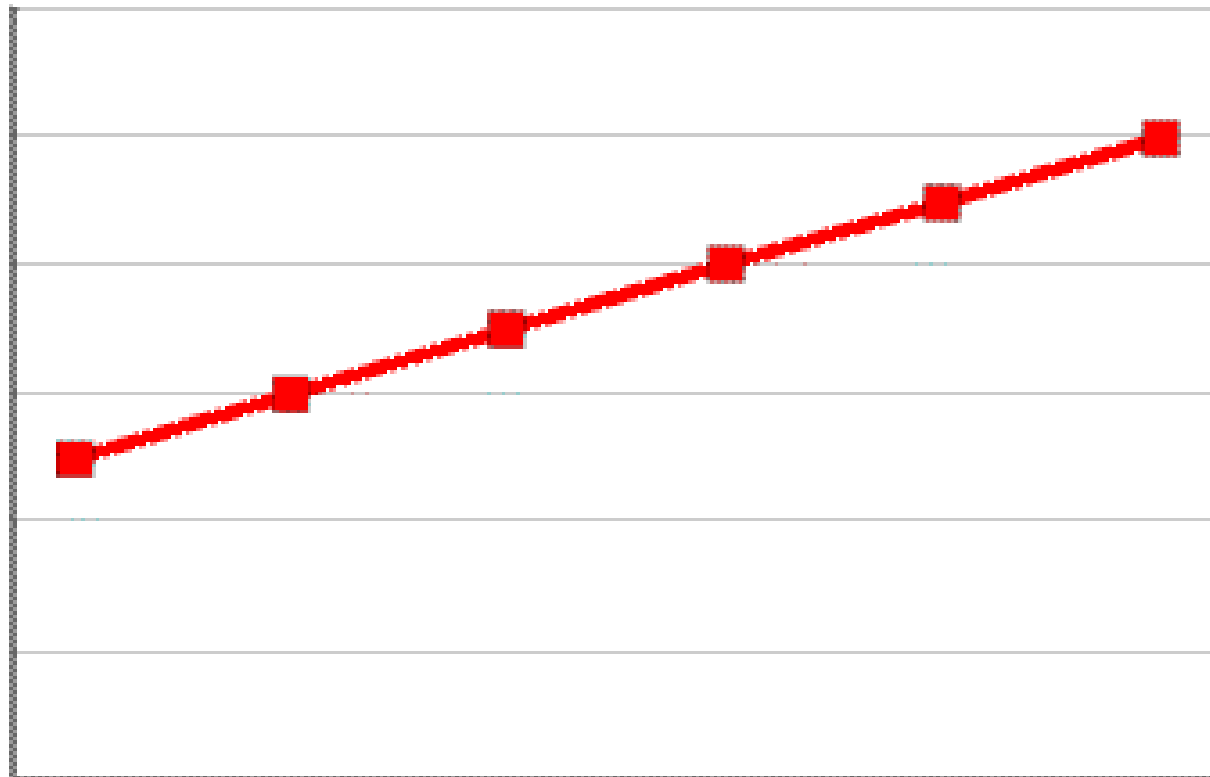




Fruit Apples Bananas Grapes Oranges Pears

Temperature of Heated Water

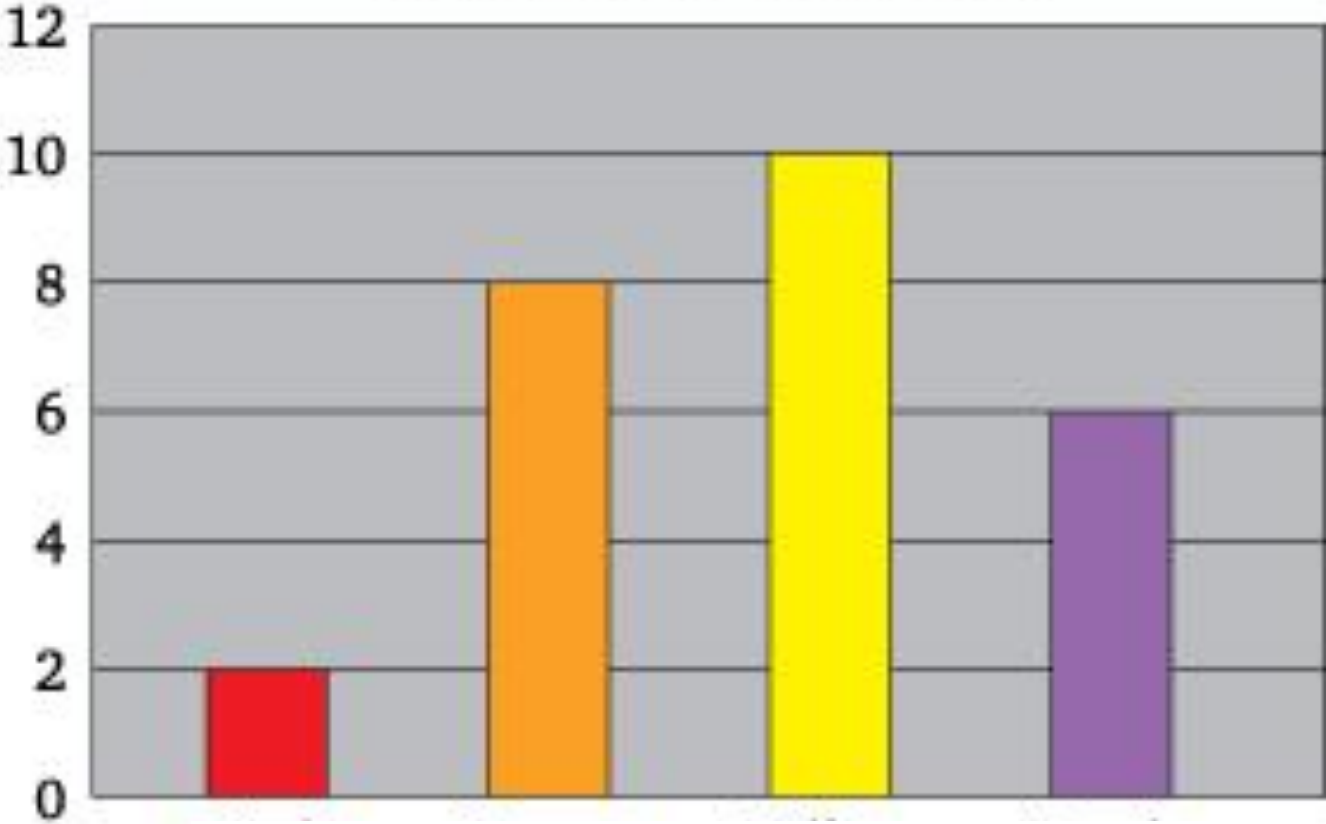
Dependent: Water temperature (oC)



0 1 2 3 4 5

Independent: Heating time (min)

Students' Favorite Juices



Juices

