

**Organize and Display Data**

Data below were collected from a class of 9<sup>th</sup> grade students.

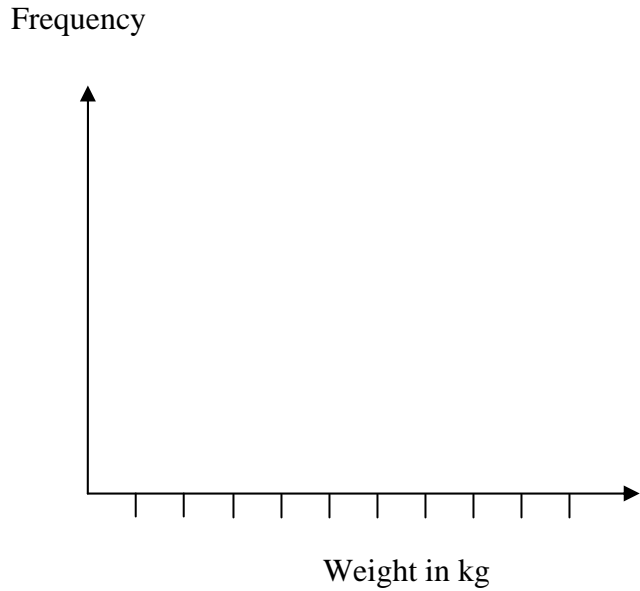
Gender	Height (m)	Weight (kg)	Exercise per week	Daily hours of TV viewing
Female	1.52	42.18	4 Days	2 or fewer hours
Female	1.57	52.62	4 Days	2 or fewer hours
Female	1.65	65.77	0 Days	More than 2 hours
Female	1.68	113.40	1 Day	More than 2 hours
Female	1.57	49.90	1 Day	2 or fewer hours
Female	1.60	50.80	0 Days	More than 2 hours
Male	1.57	56.70	1 Day	.
Male	1.75	49.90	4 Days	More than 2 hours
Male	1.68	59.88	4 Days	More than 2 hours
Male	1.68	68.95	7 Days	2 or fewer hours
Male	1.65	47.63	1 Day	2 or fewer hours
Female	1.57	48.54	2 Days	2 or fewer hours
Female	1.68	73.94	0 Days	More than 2 hours
Male	1.85	104.33	2 Days	More than 2 hours
Male	1.68	45.36	7 Days	More than 2 hours
Female	1.55	75.30	0 Days	2 or fewer hours
Female	1.60	47.63	4 Days	2 or fewer hours
Male	1.83	77.11	6 Days	More than 2 hours
Female	1.73	58.06	3 Days	2 or fewer hours
Female	.	.	2 Days	2 or fewer hours
Female	1.57	53.52	6 Days	2 or fewer hours
Male	1.88	63.50	5 Days	2 or fewer hours
Male	.	.	0 Days	2 or fewer hours
Male	1.70	58.97	0 Days	More than 2 hours
Male	1.75	96.16	7 Days	2 or fewer hours
Male	1.78	56.70	4 Days	2 or fewer hours
Female	1.65	58.06	4 Days	2 or fewer hours
Female	1.57	44.45	7 Days	More than 2 hours
Female	1.60	49.90	3 Days	More than 2 hours
Male	1.70	61.24	2 Days	More than 2 hours

Use this data to answer questions 1 – 4 in the following pages and use the data in question 5 to do question 5.

(Do all the work by hand, not by computer.)

1. Make a **frequency distribution table** for the **Weight variable** and then make a **histogram** to display the distribution of this variable. (Use a class width of 10.)

Class	Frequency
40 to less than 50	

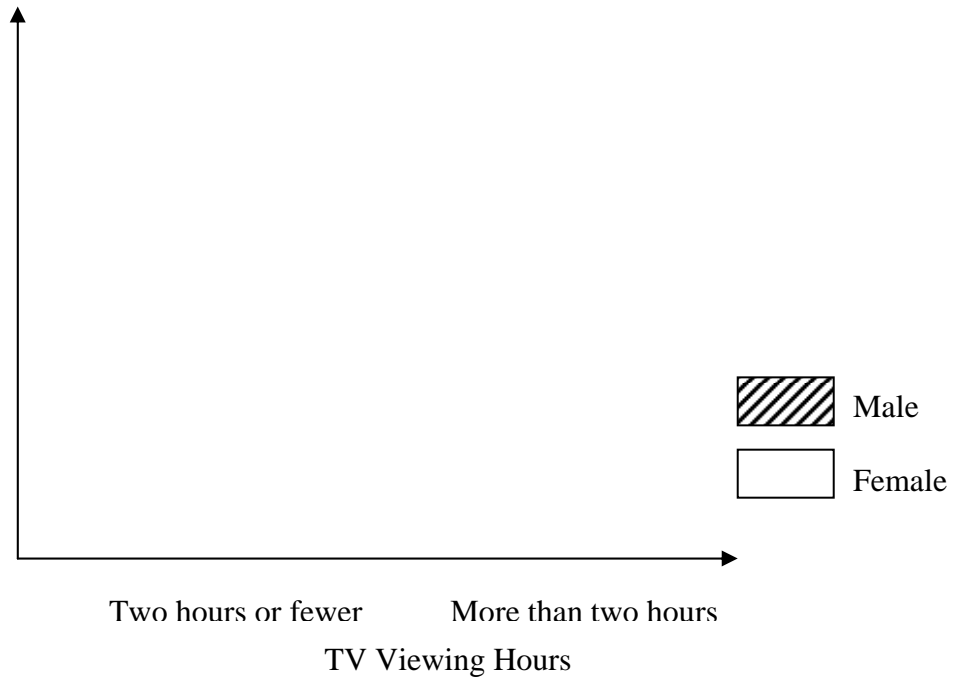


2. Make a **frequency distribution table** for the **gender** variable to see the frequency distribution and then make a **bar chart**.

Class	Frequency



3. Make a **cluster bar chart** to examine the correlation between gender and TV viewing time. (Use the TV viewing time variable as the category axis and **gender** variable as the cluster variable.)



4. Make a **scatter plot** to examine the correlation between **weight** and **height** variables, and write a sentence to describe the trend you observed from the scatter plot.



5. A quality control officer recorded the average length for a random sample of 10 of steel frames made from a production line in (inches). The sample was taken one every hour. Produce a time plot to display the trend.

<b>Time</b>	<b>Average Length</b>
8 am	5.1
9 am	4.9
10 am	5.1
11 am	5.2
12 pm	5.2
1 pm	5.3
2 pm	5.5
3 pm	5.9
4 pm	6.5
5 pm	7.7
6 pm	9.6

Average Length

