

## MDM 4U

### DATA ANALYSIS WITH GRAPHS

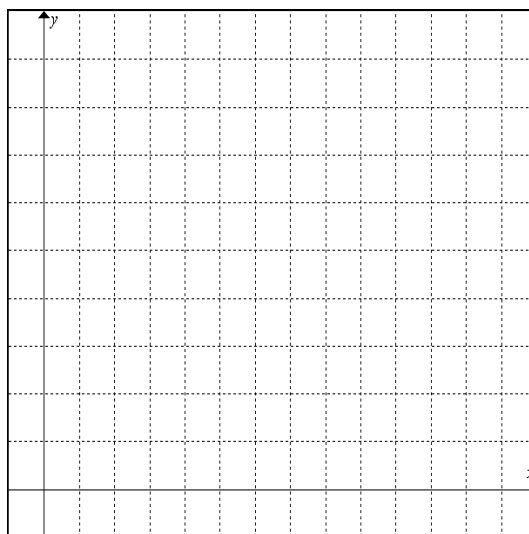
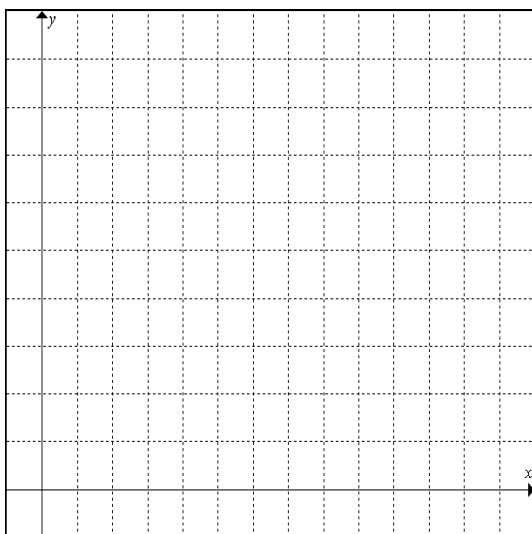
**EXAMPLE 1:** Given the following data represents the estimated number of people (in millions) who have watched each episode of Jeopardy over a 6-week period.

8.2	7.6	5.6	9.0	7.2	10.8	3.3	9.6	7.1	9.1
10.6	9.8	4.4	7.3	4.8	11.1	5.5	5.9	7.2	9.2
7.0	8.8	8.2	9.0	8.2	6.5	6.7	8.0	4.9	7.1

- A) What is the range of the data?
- B) Prepare a frequency table for grouped data. Include cumulative frequency and relative frequency.

group			

- C) Draw a frequency diagram and a cumulative frequency diagram.

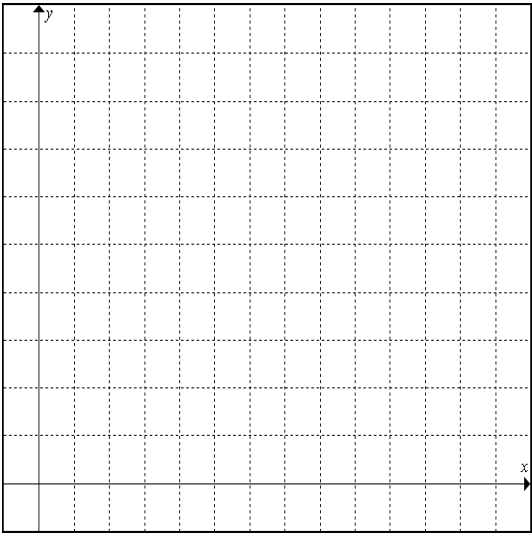
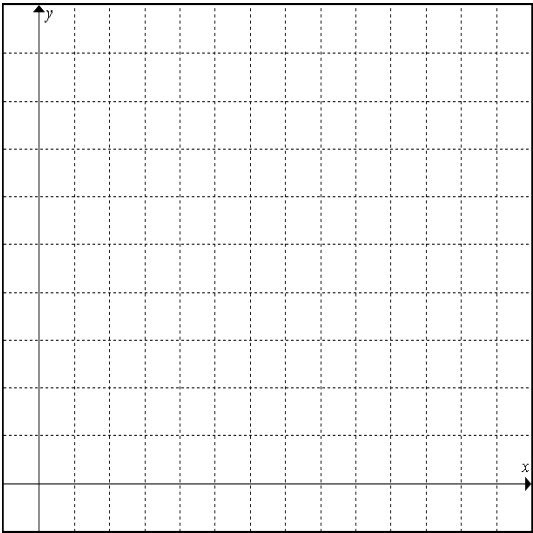


**EXAMPLE 2:** The following data represent the sum of 2 dice that were rolled 40 times.

8	10	6	4	2	9	5	7	7	8
5	3	10	11	7	9	8	6	6	7
7	5	11	12	6	7	8	9	5	7
2	4	6	10	8	7	3	2	8	9

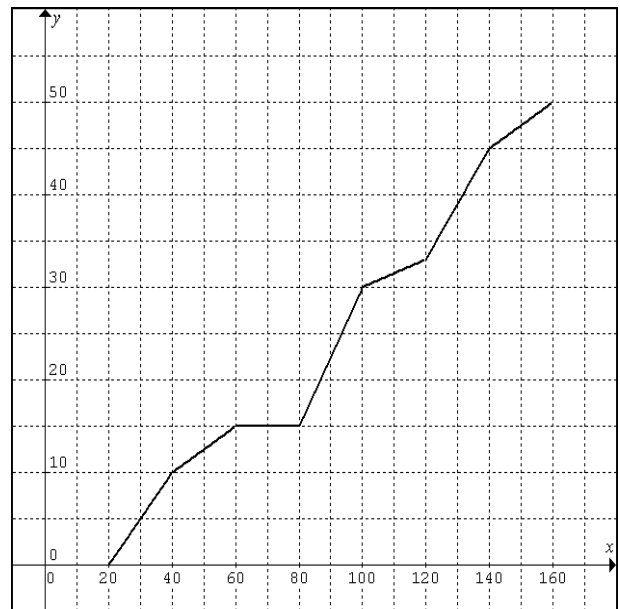
- A) What is the range of the data?
- B) Prepare a frequency table for the data. Include cumulative frequency and relative frequency.


- C) Draw a frequency diagram and a cumulative frequency diagram.



**EXAMPLE 3:** Given the cumulative frequency diagram for the salaries (in \$ '000) of employees at a local factory, answer the following questions.

- A) How many people are employed?
- B) Which group interval contains the most data? Explain your reasoning.
- C) Which group interval contains no data? Explain your reasoning.



- D) Complete a frequency table.


- E) Draw a frequency diagram and relative frequency diagram.

