

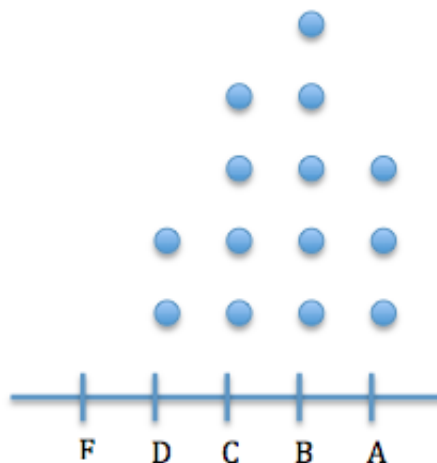


### 3.7 Line Plots

In this worksheet, we will interpret data using line plots. If you would like further explanation before attempting these problems, links to video descriptions can be found at the end of this worksheet.

- 1 Students in a 6th grade class took an exam. The teacher modeled their grades, found in the table below, using a line plot.

grade on exam	number of students
A	3
B	5
C	4
D	2
F	0



- (a) What do the letters on the horizontal axis represent?
- (b) What do the dots represent?
- (c) What was the most frequent grade on the exam?
- (d) How many students took the exam?
- (e) What was the range of grades received by the students?



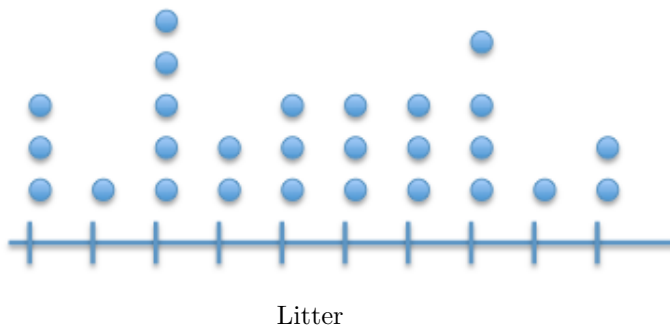
2 Using the following table about the number of coffee cups drank per day by a group of students, create your own line plot.

Student	Coffee Cups drank per day
Monica	2
Jack	0
Peter	1
Rob	4
Megan	5
Dana	2
Chris	3
Judy	2
Lisa	1
Frank	6

---

- (a) What is the most frequent number of coffee cups drank per day?
- (b) What is the range of coffee cups drank per day?

3 On Ann's farm last year, ten cats gave birth to a litter of kittens. Use the line plot about the number of kitten per litter to answer the following questions.



- (a) Which kitten litter size is the most frequent?
- (b) How large was the largest litter?
- (c) How small was the smallest litter?

Additional Resources:

- Here you'll find an introduction to line plots [http://youtu.be/Xas\\_1WN9qHE](http://youtu.be/Xas_1WN9qHE)
- Here you'll find further explanation of line plots <http://youtu.be/dJ7TZxgu1t0>
- Here you'll find info about line plots: <https://www.khanacademy.org/math/cc-fourth-grade-math/cc-4th-measurement-cc-4th-data/v/interpreting-data-in-line-plots>