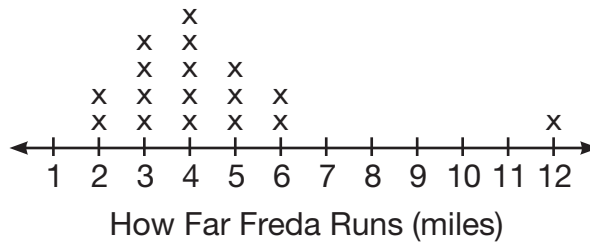# Line Plots

The table below gives the number of miles Freda ran over a period of days. A line plot shows data along a number line. Each *X* represents one number in the data set.

Miles Run	Days
2	2
3	4
4	5
5	3
6	2
12	1

```
                    X
              X     X
              X  X  X
        X  X  X  X  X
        X  X  X  X  X                   X
    ←—+—+—+—+—+—+—+—+—+—+—+—+—→
      1  2  3  4  5  6  7  8  9 10 11 12
          How Far Freda Runs (miles)
```

On the line plot, each *X* represents 1 day. An outlier is a number in a data set that is very different from the rest of the numbers.

1. Is there an outlier in the data set above? Explain.

_____

2. Complete the line plot to show the data in the table for puppies' weights at birth. Identify the outlier in the data set.

_____

```
    ←—+—+—+—+—+—+—+—+—+—+—+→
      3  4  5  6  7  8  9 10 11 12 13
          Weights of Puppies (lb)
```

Weight (lb)	Number of Puppies
3	5
4	3
5	2
6	0
7	1
13	1
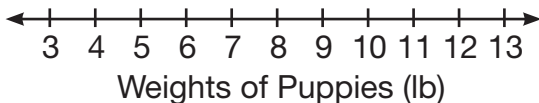
Line Plots

Number of Rabbits in Each Litter	1	2	3	4	5	6	7	8	9	10	11	12
Litters	/	///	###	### ////	### ###	### ///	////	////	///	###	///	/

1. Make a line plot of the number of rabbits in each litter.
   a. Write a label at the bottom.
   b. Put *X*s on the number line to show the number of rabbits in a litter.

```
←——+——+——+——+——+——+——+——+——+——+——+——+——+——→
   0   1   2   3   4   5   6   7   8   9  10  11  12  13
```
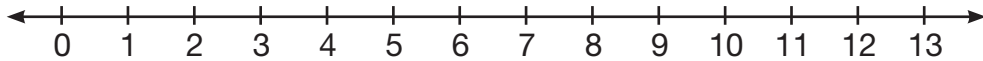
2. How many *X*s are shown for 6? _____

3. What is the number of rabbits that appears in a litter most often?

   A 3 rabbits   **B** 4 rabbits   **C** 5 rabbits   **D** 6 rabbits

4. Is the 1-rabbit litter an outlier?

   _____

   _____