

Empty Seats

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- a. Use **Quick Poll** again to ask students:
 - *If there are always empty seats, then how many extra seats should the airline book to ensure that the flight is full each time?*
- b. To answer the question posed above, instruct students to exit NavNet and return to the home screen. Have them modify the command from step 3b to determine how many tickets need to be issued to completely fill the flight (see the screen below).

```
seq(randInt(1,10  
) ,X,1,50)+L1  
(6 5 3 2 10 3 2...
```

- c. Note that the list has been extended to include 50 random numbers from 1 to 10. Students should not sort this list. Instead, they should go to L1 and see how far down the list they must go until they've found 25 numbers that are 3 or greater.

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- a. Have students log back into NavNet and use **Quick Poll** to determine, for each student trial, how many tickets needed to be sold to completely fill the plane. The bar graph will illustrate that airlines can definitely sell more tickets than available seats without running into a problem of too many people showing up for the flight.
- b. This experiment can be repeated several times. Use **Quick Poll** again to ask students:
 - *If you ran the company, how many extra seats would you sell to ensure that the flight is full each time?*