

## The Great Potato Hunt!!!!

It is much anticipated event in the state of Idaho. "Potato day" - the day when everybody would gather together and have a big potato hunt! Its like an Easter Egg hunt, but with potatoes. Sound exciting? No?! - They thought it was great! It was a big competition in Idaho. The referees have gathered the results of the contestants. We have them below. The problem is some referees have done cumulative frequency tables, and some have done frequency tables.

1. Dave "The Rover" Smith – nicknamed for his excellent potato finding skills had the following results. Convert them to a cumulative frequency chart, and then draw a cumulative frequency graph.

Time (s)	Frequency
0-10	3
10-20	8
20-30	15
30-40	20
40-50	14
50-60	6

2. Jessi "Spud" Web was also incredible in her ability to sniff outs those potatoes. Her results were recorded in a cumulative frequency table. Convert this to a frequency table, and then draw BOTH a frequency chart, and a cumulative frequency graph.

Time (s)	Cumulative Frequency
0-10	20
10-20	27
20-30	31
30-40	31
40-50	37
50-60	50

3. Wayne "Idaho hound" Hunt was the Great Potato Hunt Champion for the last three years running. He was known for his consistency. He always collected the same amount of potatoes in each time interval. This year he collected 60 potatoes in the time allowed.
  - Complete a frequency chart
  - Complete a cumulative frequency chart
  - Draw a cumulative frequency graph

4. Here are some other contestants results. Draw a Frequency and Cumulative frequency chart for each. (Note – one of the two is done for you already!)

(a) John “The Root” James

<b>Time (s)</b>	<b>Frequency</b>
0-10	16
10-20	12
20-30	5
30-40	7
40-50	14
50-60	20

(b) Sid “Mud ain’t no barrier for me” James (John’s Brother)

<b>Time (s)</b>	<b>Cumulative Frequency</b>
0-10	7
10-20	7
20-30	7
30-40	7
40-50	7
50-60	7

(c) Mary “Peeling Queen” Jean

<b>Time (s)</b>	<b>Cumulative Frequency</b>
0-10	8
10-20	11
20-30	18
30-40	28
40-50	34
50-60	36

Now sketch for (a), (b) and (c), what the frequency chart would look like (n, u, or straight) and sketch the corresponding cumulative frequency graph.