Exercise Solution

During the Manic Mango keynote, the CEO wants to explain how he wants to target particular age groups. He has a cumulative frequency graph showing the cumulative frequency of the ages, but he needs the frequencies too, and the dog ate the piece of paper they were written on. See if you can use the cumulative frequency graph to piece together what the frequencies of each group are.

Age group	Upper limit	Cumulative frequency	Frequency
<0	0	0	0
0–17	18	2,000	2,000
18–24	25	4,500	4,500 – 2,000 = 2,500
25–39	40	6,500	6,500 – 4,500 = 2,000
40–54	55	8,500	8,500 – 6,500 = 2,000
55–79	80	9,400	9,400 – 8,500 = 900
80–99	100	9,500	9,500 – 9,400 = 100

Use the chart to find the cumulative frequencies.

Don't worry if you get slightly different results—they're just estimates.

You can find the frequencies by taking the current cumulative frequency, and subtracting the previous one.

Number of Players Under a Particular Age