

Module 03 Lesson 03

Animation: Distribution

Transcript

[Visual: The Distribution graph is shown with none of the colors filled in.]

The IQ scores that occur with the highest frequency are the middle scores between 85 and 115. In other words, 68% of all the people return an IQ score between 85 – 115.

[Visual: The area where 68% of population is filled in with the color blue.]

A further 14% return scores between 70 – 85

[Visual: The 70-85 range is filled in with the color orange.],

and another 14% scores between 115 – 130.

[Visual: The 115-130 range is filled in with the color orange.]

So, in effect, 95% of the people tested return scores between 70 – 130.

[Visual: The line is transitioned that appears from 70-130 with the 95% above it.]

However, test scores <70 and >130 were also recorded.

[Visual: The area <70 and the >130 are highlighted in the color red starting with <70 first, then the >130 .]

As you proceed away from the middle score of 100, each score's frequency decreases, with the highest and lowest scores having very low frequency.

These low frequency scores are termed extreme values or outliers.

[Visual: The term "outliers" appears just above the <70 and the >130 .]

Just think what the world would be like with too many 'idiots' or too many 'geniuses' and you should begin to appreciate the normal distribution.