Word	Description
	Z-test determines to what extent a data point is away from the mean of the data set, in standard deviation. For example:
	Principal at a certain school claims that the students in his school are above average intelligence. A random sample of thirty students has a mean IQ score of 112. The mean population IQ is 100 with a standard deviation of 15. Is there sufficient evidence to support the principal's claim?
	So we can make use of z-test to test the claims made by the principal. Steps to perform z-test:
	Stating null hypothesis and alternate hypothesis.
Z-test	• State the alpha level. If you don't have an alpha level, use 5% (0.05).
	• Find the rejection region area (given by your alpha level above) from the z-table. An area of .05 is equal to a z-score of 1.645.
	• Find the test statistics using this formula:
	$Z-test = \frac{\bar{x} - \mu}{\sigma/\sqrt{n}}$
	Here,
	• x is the sample mean
	$ullet$ σ is population standard deviation
	• n is sample size
	• μ is the population mean
	If the test statistic is greater than the z-score of rejection area, reject the null hypothesis. If it's less than that z-score, you cannot reject the null hypothesis.