

## For Paid-Plan Students

	minutes_watched_21	minutes_watched_22
Mean	33.80	273.02
Median	26.33	40.28
Standard Deviation	28.21	854.58
Skewness	0.63	7.07
Kurtosis	-0.85	58.48

## For Free-Plan Students

	minutes_watched_21	minutes_watched_22
Mean	25.39	117.64
Median	14.17	11.83
Standard Deviation	26.23	468.93
Skewness	1.17	15.06
Kurtosis	0.36	315.76

### For Paid-Plan Students

	minutes_watched_21	minutes_watched_22
Count	3433	5104
Average	368.3547139	368.3547
Standard Deviation	485.8634701	596.4052

The significance level  $\alpha = 1 - 0.95 = 0.05$ .

The **z-score for a 95% confidence interval is 1.96**.

Standart Error(SE)	8.292344684	8.34807
Margin of Error (ME)	16.25299558	16.36222
Lower Bound	316.2495124	351.9925
Upper Bound	348.7555036	384.7169

### For Free-Plan Students

	minutes_watched_21	minutes_watched_22
Count	32171	120658
Average	133.9333129	69.14765544
Standard Deviation	367.2624454	255.6234424

Standart Error(SE)	2.047595853	0.735906464
Margin of Error (ME)	4.013287872	1.44237667
Lower Bound	316.2495124	67.70527877
Upper Bound	137.9466008	70.59003211

## Paid-Plan Students

	minutes_watched_21	minutes_watched_22
Standart Error(SE)	8.292344684	8.348069563

## Paid-plan Students

t-Test: Two-Sample Assuming Unequal Variances

	<i>Variable 1</i>	<i>Variable 2</i>
Mean	332.502508	368.3547139
Variance	236063.3116	355699.1148
Observations	3433	5104
Hypothesized Mean Difference	0	
df	8229	
t Stat	-3.046942872	
P(T<=t) one-tail	0.001159572	
t Critical one-tail	1.645038819	
P(T<=t) two-tail	0.002319144	
t Critical two-tail	1.960252308	

## Paid Plan Student

F-Test Two-Sample for Variances

	<i>Variable 1</i>	<i>Variable 2</i>
Mean	332.502508	368.3547139
Variance	236063.3116	355699.1148
Observations	3433	5104
df	3432	5103
F	0.663660104	
P(F<=f) one-tail	0	

## Free-plan Students

	minutes_watched_21	minutes_watched_22
Standart Error(SE)	2.047595853	0.735906464

## Free-plan Students

t-Test: Two-Sample Assuming Unequal Variances

	<i>Variable 1</i>	<i>Variable 2</i>
Mean	133.9333129	69.14765544
Variance	134881.7038	65343.34428
Observations	32171	120658
Hypothesized Mean Difference	0	
df	40836	
t Stat	29.77523819	
P(T<=t) one-tail	4.7441E-193	
t Critical one-tail	1.644890942	
P(T<=t) two-tail	9.4881E-193	
t Critical two-tail	1.960022079	

## Free Plan Student

F-Test Two-Sample for Variances

	<i>Variable 1</i>	<i>Variable 2</i>
Mean	133.9333129	69.14765544
Variance	134881.7038	65343.34428
Observations	32171	120658
df	32170	120657
F	2.06419958	
P(F<=f) one-tail	0	

## Free-plan Students US vs India Engagement

minutes\_watched\_22\_US minutes\_watched\_22\_IN  
Standart Error(SE) 3.839330887 2.192692341

F-Test Two-Sample for Variances

	Variable 1	Variable 2
Mean	73.07053569	78.42208628
Variance	95208.64187	101975.5527
Observations	6459	21210
df	6458	21209
F	0.933641833	
P(F<=f) one-tail	0.000347535	
F Critical one-tail	0.967314359	

t-Test: Two-Sample Assuming Unequal Variances

	Variable 1	Variable 2
Mean	73.07053569	78.42208628
Variance	95208.64187	101975.5527
Observations	6459	21210
Hypothesized Mean Difference	0	
df	11001	
t Stat	-1.210387573	
P(T<=t) one-tail	0.113078106	
t Critical one-tail	1.644992151	
P(T<=t) two-tail	0.226156213	
t Critical two-tail	1.960179649	