

7_Calculating Z-test

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In [11]: import scipy.stats as st
import numpy as np
```

```
In [19]: # To calculate Z-value (from Z-table)
z_table = st.norm.ppf(1-0.05)
z_table
```

Out[19]: 1.6448536269514722

```
In [20]: s_x = 90
p_u = 82
p_std = 20
n = 81
```

```
In [21]: z_cal = (s_x - p_u) / (p_std/np.sqrt(n))
z_cal
```

Out[21]: 3.5999999999999996

```
In [24]: if z_table < z_cal:
print("Alternate Hypothesis (Ha) is correct")
else:
print("Null hypothesis (Ho) is correct")
```

Alternate Hypothesis (Ha) is correct

```
In [ ]:
```