1)

H0: Sample mean = 100

HA: Sample mean > 100

One or two samples: One

One or two tales: One

If one tailed, left or right: Right

Means or proportions: Means

Alpha: 1%

Z or T: Z

Z or T Value: 8.01

Degrees of freedom, if relevant:

Critical value: 2.33

Reject the null? Reject

2)

H0: Sample mean = 100

HA: Sample mean < 100

One or two samples: One

One or two tales: One

If one tailed, left or right: Left

Means or proportions: Means

Alpha: 5%

Z or T: Z (since population stdev is given)

Z or T Value: -1.48

Degrees of freedom, if relevant:

Critical value: -1.65

Reject the null? Fail to reject

3)

H0: Sample mean = 100

HA: Sample mean =/= 100

One or two samples: One

One or two tales: Two

If one tailed, left or right:

Means or proportions: Means

Alpha: 5%

Z or T: Z

Z or T Value: 1.096

Degrees of freedom, if relevant:

Critical value: 1.96

Accept or reject the null: Fail to reject

4)

H0: Sample mean = 95

HA: Sample mean < 95

One or two samples: One

One or two tales: One

If one tailed, left or right: Left

Means or proportions: Means

Alpha: 10%

Z or T: Z

Z or T Value: -6.59

Degrees of freedom, if relevant:

Critical value: -1.28

Reject the null? Reject

5)

H0: p = 0.5

HA: p > 0.5

One or two samples: One

One or two tales: One

If one tailed, left or right: Right

Means or proportions: Proportions

Alpha: 5%

Z or T: Z

Z or T Value: 4.2

Degrees of freedom, if relevant:

Critical value: 1.65

Accept or reject the null: Reject

6)

H0: Wednesday Class Mean = Tuesday Class mean

HA: Wednesday Class Mean > Tuesday Class Mean

One or two samples: Two

One or two tales: One

If one tailed, left or right: Right

Means or proportions: Means

Alpha: 0.01

Z or T: T since population stdev unknown – Welch’s Test

Z or T Value: 2.59

Degrees of freedom, if relevant: 53

Critical value: 2.405

Reject the null? Reject

7)

H0: Online and In-Person Proportions are equal

HA: Online and In-Person Proportions are unequal

One or two samples: Two

One or two tales: Two

If one tailed, left or right:

Means or proportions: Proportions

Alpha: 0.10

Z or T: Z

Z or T Value: 1.38

Degrees of freedom, if relevant:

Critical value: 1.645

Reject the null? Fail to reject.