Part 5.1 Questions

Fill in the blanks below. With each question the blanks get slightly bigger.

1. **Claim**: "Majority of kiwi school students bring their own device to school"
   Percentage from Survey: 65% bring own device to school.
   Sample Size: 1000
   Margin of Error: $\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{\quad}} =$ _____ (3sf) = _____%
   Construct the confidence interval: _____% ± _____% = (_____%, _____%)
   Interpret what this Means: We can say, with 95% confidence, that the percentage of kiwi school students who bring their own device to school is somewhere between ____% and ____%.
   Make a Judgement: The percentage of kiwi school students who bring their own device to school could be as low as _____%, and so this confidence interval _____ support a claim of over 50% as implied by the "majority" statement.

2. **Claim**: "Over half of people support the new law"
   Percentage from Survey: 54% support the new law
   Sample Size: 300
   Margin of Error: $\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{\quad}} =$ _____ (3sf) = _____%
   Construct the confidence interval: _____% ± _____% = (_____%, _____%)
   Interpret what this Means: It is a fairly safe bet that the percentage of people who support the new law is somewhere between ____% and ____%.
   Make a Judgement: The percentage of _____
   could be as low as _____%, and so this confidence interval _____ support a claim of over 50% as implied by the "over half" statement.

3. **Claim**: "Less than half of New Zealanders have an iPhone"
   Percentage from Survey: 36% have an iPhone
   Sample Size: 100
   Margin of Error: $\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{\quad}} =$ _____ = _____%
   Construct the confidence interval: _____% ± _____% = (_____%, _____%)
   Interpret what this Means: I am fairy sure that the percentage of _____
   _____ is somewhere between ____% and ____%.
   Make a Judgement: The percentage of _____
   could be as ____ as _____%, and so this confidence interval _____ support a claim of _____
   50% as implied by the "_____" statement.

4. **Claim**: "Majority of kiwi school students have a Facebook account"
   Percentage from Survey: 51% have a Facebook account
   Sample Size: 1000
   Margin of Error: $\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{\quad}} =$ _____ = _____%
   Construct the confidence interval: _____% ± _____% = (_____%, _____%)
   Interpret what this Means: _____
   _____ is somewhere between ____% and ____%.
   Make a Judgement: The percentage of _____
   could be as ____ as _____%, and so this confidence interval _____ support a claim of _____
   50% as implied by the "_____" statement.