

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: $\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{-}} = \frac{1}{\sqrt{-}} = \frac{1}{\sqrt{-}} = \frac{1}{\sqrt{-}}$
	Construct the confidence interval: $_{}\% \pm _{}\% = (_{}\%, _{}\%)$
	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
	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: $\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{-}} =$
	Construct the confidence interval: $_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{1}}}}}}}}$
	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
	as implied by the "majority" 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: $\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{-}} =$
	Construct the confidence interval: $_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{_{1}}}}}}}}$
	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.
	30% 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
	Sample Size: 1000 Margin of Error: $\frac{1}{-} = \frac{1}{-} = $
	Margin of Error: $\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{n}} =$
	Margin of Error: $\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{-}} =$
	Margin of Error: $\frac{1}{\sqrt{n}} = \frac{1}{\sqrt{-}} = \underline{} = \underline{} \%$ Construct the confidence interval: $\underline{} \% \pm \underline{} \% = (\underline{} \%, \underline{} \%)$ Interpret what this Means:
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