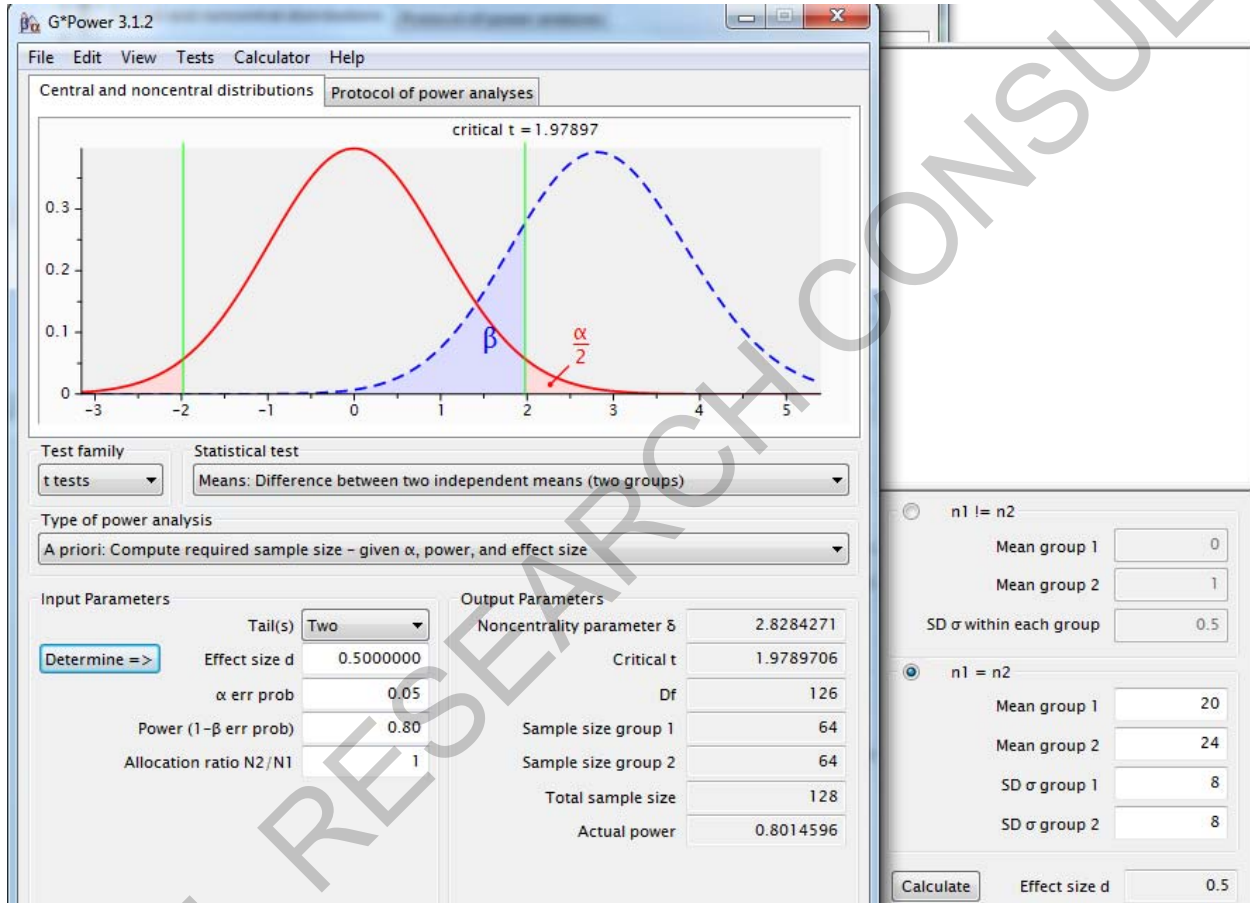


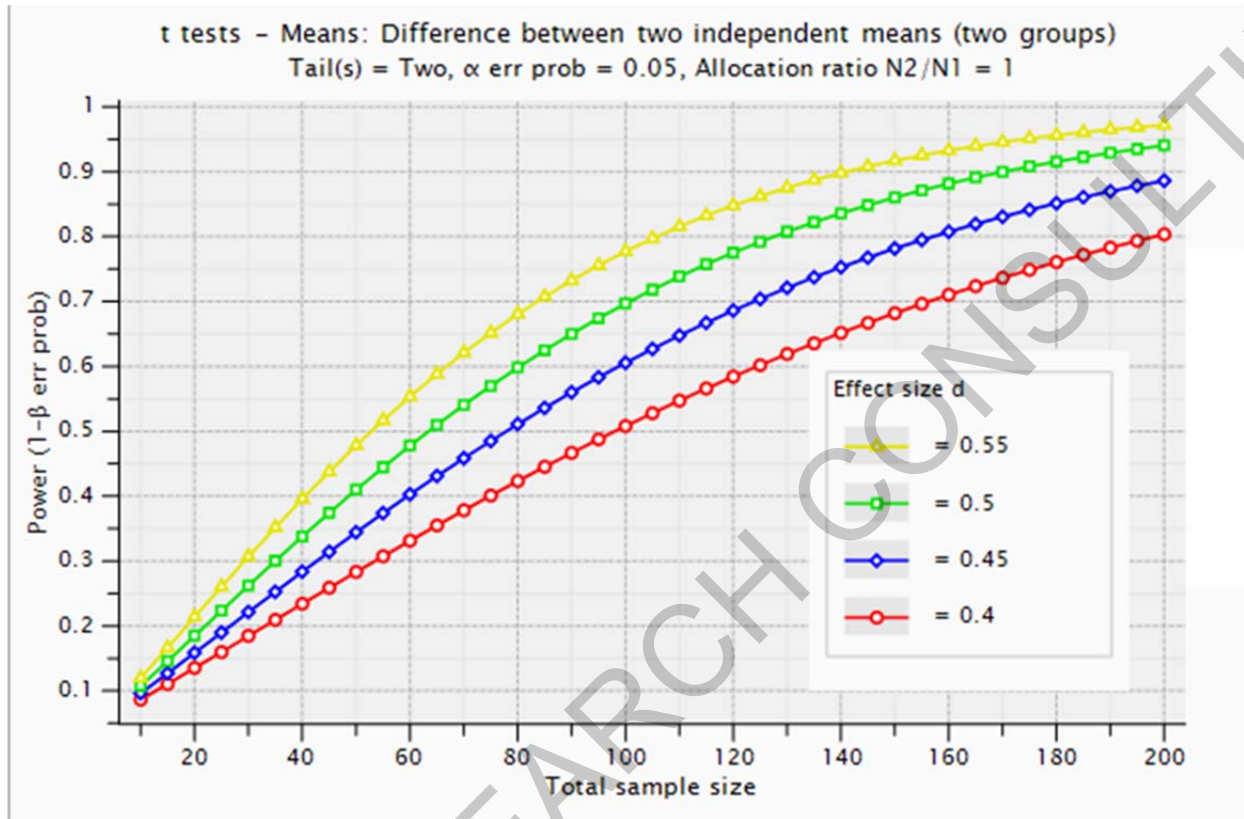
Examples of power estimates

ASSUMPTIONS: Mean (SD) group 1 = 20 (8.0), Mean (SD) group 2 = 24 (8.0)

QUESTION: What sample size is sufficient for a two-tail test ($\alpha = 0.05$) with power = 0.80 to be able to statistically detect an increase of 4 points in the scale?



Provide a plot of various effect sizes for 0.4 to 0.55 with a allocation ratio of 1:1



Provide a plot of various effect sizes for 0.4 to 0.55 with a allocation ratio of 1:1.5

Input Parameters		Output Parameters	
Determine =>	Tail(s)	Two	Noncentrality parameter δ
	Effect size d	0.5000000	2.8389613
	α err prob	0.05	Critical t
	Power ($1-\beta$ err prob)	0.80	Df
	Allocation ratio N2/N1	1.5	Sample size group 1
		Sample size group 2	132
		Total sample size	54
		Actual power	80
			134
			0.8046333

