

1. An cardiologist obtains a sample correlation of $r = 0.2$ between serum cholesterol and calcium deposition. Compute the unexplained variance.

2. For the following tests, list the number of explanatory and response variables.

	Response	Explanatory
Regression of metabolic rate on body mass.	_____	_____
Two-way analysis of variance.	_____	_____
Two-way G-test.	_____	_____
Correlation of three measures of species diversity.	_____	_____

3. If you conclude, at $\alpha = 5\%$, that the correlation of egg number and survival in the corn earworm *Heliothis armigera*, is not significant, the question of Type II will arise.

To reduce Type II error, you would need to (raise/lower) the measurement error. Circle correct answer.