

hw-0:

Here is a relatively standard-looking output from a statistical software. Suffice it to say that the problem deals with predicting concrete strength from its modulus of elasticity.

Predictor	Coef	Stdev	t-ratio	p
Constant	3.2925	0.6008	5.48	0.000
mod elas	0.10748	0.01280	8.40	0.000

s = 0.8657 R-sq = 73.8% R-sq (adj) = 72.8%

Analysis of Variance

SOURCE	DF	SS	MS	F	p
Regression	1	52.870	52.870	70.55	0.000
Error	25	18.736	0.749		
Total	26	71.605			

Use your knowledge of regression and the various quantities that arise within regression to

- Identify the estimated intercept and slope in the regression eqn.
- Identify the standard deviation about regression.
- Identify R^2 , AND state in words what it means; e.g., some percentage of blah ...
- Identify SS total, SS explained, and SS unexplained.

~74% of the variance in concrete strength can be explained by its linear relationship with modulus of elasticity.