Breaking Strength Data (y = Strength in Pounds and x = Diameter in 10^{-3} in.)

Machine 1		Machine 2		Machine 3	
y	x	y	x	y	x
36	20	40	22	35	21
41	25	48	28	37	23
39	24	39	22	42	26
42	25	45	30	34	21
49	32	44	28	32	15
207	126	216	130	180	106
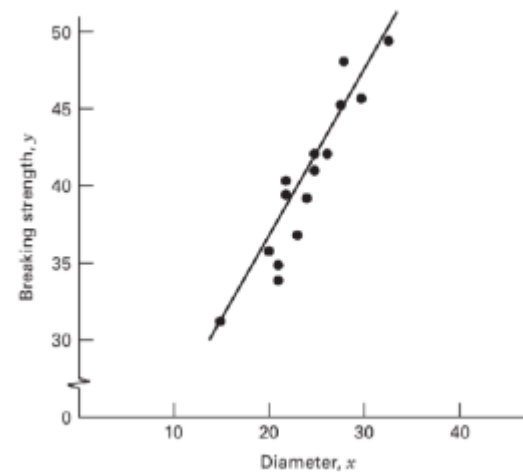

```
General Linear Model
Factor      Type     Levels      Values
Machine     fixed        3       1 2 3

Analysis of Variance for Strength, using Adjusted SS for Tests

Source      DF    Seq SS    Adj SS    Adj MS       F        P
Diameter     1    305.13    178.01    178.01    69.97    0.000
Machine      2     13.28     13.28      6.64     2.61    0.118
Error       11     27.99     27.99      2.54
Total       14    346.40

Term        Coef     Std. Dev.       T        P
Constant   17.177        2.783     6.17    0.000
Diameter    0.9540       0.1140    8.36    0.000
Machine
1           0.1824       0.5950    0.31    0.765
2           1.2192       0.6201    1.97    0.075

Means for Covariates

Covariate    Mean    Std. Dev.
Diameter    24.13       4.324

Least Squares Means for Strength

Machine      Mean    Std. Dev.
1           40.38       0.7236
2           41.42       0.7444
3           38.80       0.7879
```