## The MEANS Procedure

| Variable | N | Mean | Std Dev | Minimum | Maximum |
|---|---|---|---|---|---|
| tricep | 20 | 25.3050000 | 5.0232591 | 14.6000000 | 31.4000000 |
| thigh | 20 | 51.1700000 | 5.2346115 | 42.2000000 | 58.6000000 |
| midarm | 20 | 27.6200000 | 3.6471474 | 21.3000000 | 37.0000000 |
| fat | 20 | 20.1950000 | 5.1061856 | 11.7000000 | 27.2000000 |

## The CORR Procedure

| 4 Variables: | tricep thigh midarm fat |
|---|---|

### Simple Statistics

| Variable | N | Mean | Std Dev | Sum | Minimum | Maximum |
|---|---|---|---|---|---|---|
| tricep | 20 | 25.30500 | 5.02326 | 506.10000 | 14.60000 | 31.40000 |
| thigh | 20 | 51.17000 | 5.23461 | 1023 | 42.20000 | 58.60000 |
| midarm | 20 | 27.62000 | 3.64715 | 552.40000 | 21.30000 | 37.00000 |
| fat | 20 | 20.19500 | 5.10619 | 403.90000 | 11.70000 | 27.20000 |

### Pearson Correlation Coefficients, N = 20
### Prob > |r| under H0: Rho=0

|  | tricep | thigh | midarm | fat |
|---|---|---|---|---|
| **tricep** | 1.00000 | 0.92384<br><.0001 | 0.45778<br>0.0424 | 0.84327<br><.0001 |
| **thigh** | 0.92384<br><.0001 | 1.00000 | 0.08467<br>0.7227 | 0.87809<br><.0001 |
| **midarm** | 0.45778<br>0.0424 | 0.08467<br>0.7227 | 1.00000 | 0.14244<br>0.5491 |
| **fat** | 0.84327<br><.0001 | 0.87809<br><.0001 | 0.14244<br>0.5491 | 1.00000 |

## The REG Procedure
## Model: MODEL1
## Dependent Variable: fat

| Number of Observations Read | 20 |
|---|---|
| Number of Observations Used | 20 |

### Analysis of Variance

| Source | DF | Sum of Squares | Mean Square | F Value | Pr > F |
|---|---|---|---|---|---|
| Model | 3 | 396.98461 | 132.32820 | 21.52 | <.0001 |
| Error | 16 | 98.40489 | 6.15031 |  |  |
| Corrected Total | 19 | 495.38950 |  |  |  |

| Root MSE | 2.47998 | R-Square | 0.8014 |
|---|---|---|---|
| Dependent Mean | 20.19500 | Adj R-Sq | 0.7641 |
| Coeff Var | 12.28017 |  |  |

### Parameter Estimates

| Variable | DF | Parameter Estimate | Standard Error | t Value | Pr > |t| |
|---|---|---|---|---|---|
| Intercept | 1 | 117.08469 | 99.78240 | 1.17 | 0.2578 |

| | | Parameter Estimates | | | |
|---|---|---|---|---|---|
| Variable | DF | Parameter Estimate | Standard Error | t Value | Pr > \|t\| |
| tricep | 1 | 4.33409 | 3.01551 | 1.44 | 0.1699 |
| thigh | 1 | -2.85685 | 2.58202 | -1.11 | 0.2849 |
| midarm | 1 | -2.18606 | 1.59550 | -1.37 | 0.1896 |

**The REG Procedure**
**Model: MODEL1**
**Dependent Variable: fat**



Fit Diagnostics for fat

| Observations | 20 |
|---|---|
| Parameters | 4 |
| Error DF | 16 |
| MSE | 6.1503 |
| R-Square | 0.8014 |
| Adj R-Square | 0.7641 |

Residual by Regressors for fat