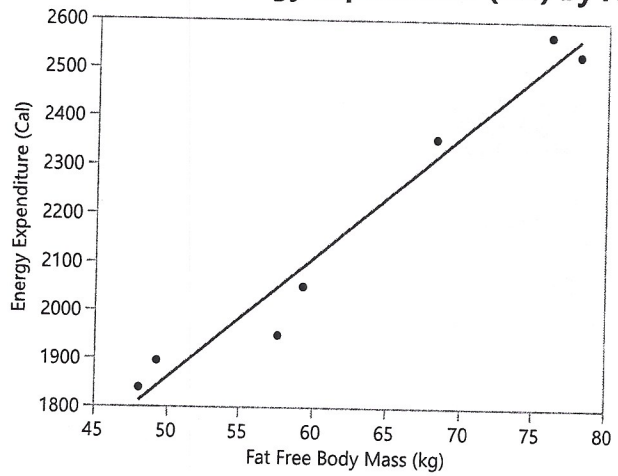
Bivariate Fit of Energy Expenditure (Cal) By Fat Free Body Mass (kg)



Linear Fit

Linear Fit

$\hat{\beta}_0$ $\hat{\beta}_1$

Energy Expenditure (Cal) = 607.70344 + 25.011621*Fat Free Body Mass (kg) ← $\hat{y} = \hat{\beta}_0 + \hat{\beta}_1 x$

Summary of Fit

RSquare	0.96312 ← r^2 or R^2
RSquare Adj	0.955744
Root Mean Square Error	64.84766 ← $\hat{\sigma}$
Mean of Response	2168.429 ← $\bar{y}$
Observations (or Sum Wgts)	7 ← n

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	1	549097.62 ← SS_{reg}	549098	130.5753
Error	5	21026.10 ← RSS	4205	Prob > F
C. Total	6	570123.71 ← SYY		<.0001*

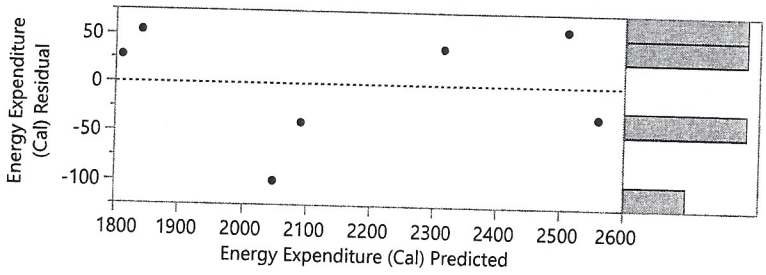
Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob>|t|
Intercept	607.70344	138.7646	4.38	0.0072*
Fat Free Body Mass (kg)	25.011621	2.188827	11.43	<.0001*

$\hat{\beta}_0$ $\hat{\beta}_1$ $se(\hat{\beta}_0)$ $se(\hat{\beta}_1)$

Diagnostics Plots

Residual by Predicted Plot



Residual by X Plot