TABLE 3.1
HYPERACTIVE CHILDREN'S WISC-R SCORES

Full-Model Analysis						
IQ Scores Y <sub>i</sub>	Prediction Equations	Parameter Term û	Error Scores $e_{i_{\mathrm{F}}} = Y_{i} - \hat{\mu}$	Squared Errors $e_{i_{\mathrm{F}}}^{2}$		
96	$=\hat{\mu}+e_1$	104	-8	64		
102	$=\hat{\mu}+e_2$	104	-2	4		
104	$=\hat{\mu}+e_3$	104	0	0		
104	$=\hat{\mu}+e_4$	104	0	0		
108	$=\hat{\mu}+e_5$	104	+4	16		
110	$=\hat{\mu}+e_6$	104	+6	36		
$\sum_{\overline{Y}} = 624$ $\overline{Y} = 104$			$\sum = 0$	$E_{\rm F} = 120$		

Restricted-Model Analysis						
IQ Scores Y <sub>i</sub>	Prediction Equations	Parameter Term μ <sub>0</sub>	Error Scores $e_{i_{R}} = Y_{i} - \mu_{0}$	Squared Errors $e_{i_{\mathrm{R}}}^{2}$		
96	$=\mu_0+e_1$	98	-2	4		
102	$= \mu_0 + e_2$	98	4	16		
104	$= \mu_0 + e_3$	98	6	36		
104	$=\mu_0 + e_4$	98	6	36		
108	$= \mu_0 + e_5$	98	10	100		
110	$=\mu_0+e_6$	98	12	144		
				$F_{-} = 336$		

$$F = \frac{(E_{R} - E_{F}/(df_{R} - df_{F})}{E_{F}/df_{F}} = \frac{(366 - 120)/(6 - 5)}{120/5} = \frac{216}{24} = 9$$

$$t = \frac{\overline{Y} - \mu_{0}}{\hat{\sigma}_{\overline{Y}}} = \frac{\overline{Y} - \mu_{0}}{s/\sqrt{n}} = \frac{\overline{Y} - \mu_{0}}{\sqrt{\frac{\sum (Y - \overline{Y})^{2}}{n - 1}} / \sqrt{n}} = \frac{104 - 98}{\sqrt{\frac{120}{5}} / \sqrt{6}} = \frac{6}{\sqrt{\frac{24}{6}}} = 3$$