Model	b_0 (GPA points)	b_{SAT} $\left(\frac{\text{GPA points}}{\text{SAT point}}\right)$	$b_{\text{HS.PERC}}$ $\left(\frac{\text{GPA points}}{\text{percentile point}}\right)$	$b_{\text{HS.SIZE}}$ $\left(\frac{\text{GPA points}}{\text{100 students}}\right)$
Model 1	2.65	—	—	—
Model 2	0.66	0.0019	—	—
Model 3	1.28	—	0.017	—
Model 4	2.68	—	—	-0.011
Model 5	0.083	0.0015	0.014	-0.023

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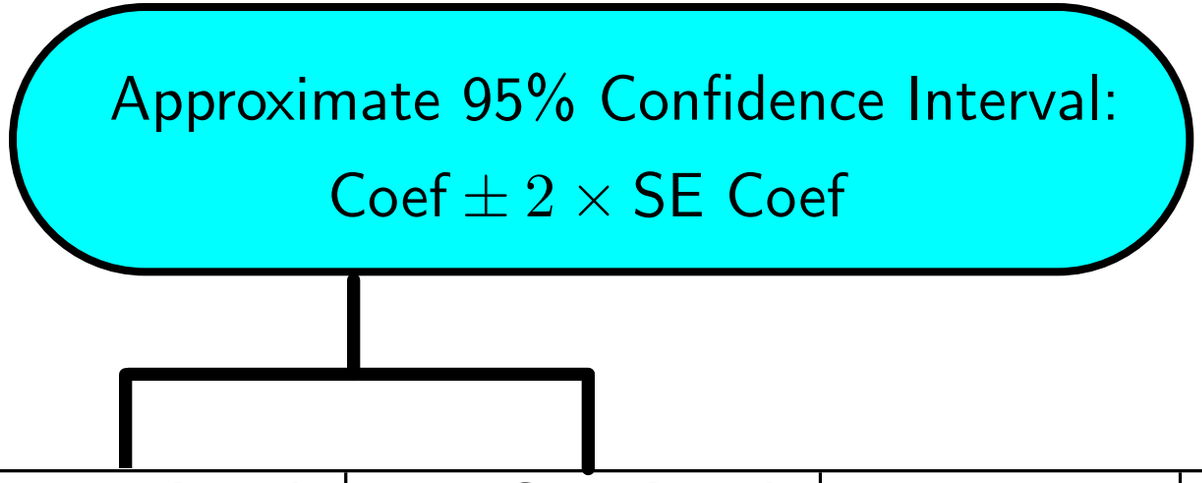
$$\widehat{\text{GPA}} = \_\_\_\_\_ + \_\_\_\_\_ \times \text{SAT} + \_\_\_\_\_ \times \text{HS.PERC} + \_\_\_\_\_ \times \text{HS.SIZE}$$

Term	Coef	SE Coef	T-Value	P-Value
Constant	0.08346	0.07035	1.186	0.236
SAT	0.001493	0.00006525	22.879	0.000
HS.PERC	0.01357	0.0005482	24.745	0.000
HS.SIZE	−0.02307	0.005027	−4.589	0.000

Overall *P*-value for the Multiple Linear Regression: $< 2.2 \times 10^{-16}$



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Overall *P*-value for the Multiple Linear Regression: $< 2.2 \times 10^{-16}$

P-value for the test:

$H_0 : \beta_{\text{SAT}} = 0$ with HS.PERC and HS.SIZE in model

$H_1 : \beta_{\text{SAT}} \neq 0$ with HS.PERC and HS.SIZE in model

Term	Coef	SE Coef	T-Value	P-Value
Constant	0.08346	0.07035	1.186	0.236
SAT	0.001493	0.00006525	22.879	0.000
HS.PERC	0.01357	0.0005482	24.745	0.000
HS.SIZE	−0.02307	0.005027	−4.589	0.000

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Overall *P*-value for the Multiple Linear Regression: $< 2.2 \times 10^{-16}$

P-value for the test:

$H_0 : \beta_{\text{SAT}} = \beta_{\text{HS.PERC}} = \beta_{\text{HS.SIZE}} = 0$

H_1 : one or more of β_{SAT}, $\beta_{\text{HS.PERC}}$, or $\beta_{\text{HS.SIZE}}$ is non-zero

Model	S	R-sq	R-sq(adj)
1	0.6586	0.0%	0.0%
2	0.6012	16.70%	16.68%
3	0.5952	18.36%	18.34%
4	0.6584	0.08156%	0.0574%
5	0.5602	27.71%	27.66%