**MISSING VALUE**

The regression equation is

ENROLL = - 41688 + 5881 TOTAL\_REVENUE - 5881 FEDERAL\_REVENUE

- 5881 STATE\_REVENUE - 5881 LOCAL\_REVENUE - 0.0254 TOTAL\_EXPENDITURE

- 0.0041 INSTRUCTION\_EXPENDITURE + 0.0481 SUPPORT\_SERVICES\_EXPENDITURE

+ 1.10 OTHER\_EXPENDITURE + 0.102 CAPITAL\_OUTLAY\_EXPENDITURE

- 1.70 GRADES\_PK\_G + 0.82 GRADES\_KG\_G + 4.66 GRADES\_4\_G

+ 2.56 GRADES\_8\_G - 9.33 GRADES\_12\_G + 0.301 GRADES\_1\_8\_G

- 0.075 GRADES\_9\_12\_G + 0.151 GRADES\_ALL\_G - 7955 AVG\_MATH\_4\_SCORE

+ 4515 AVG\_MATH\_8\_SCORE + 4329 AVG\_READING\_4\_SCORE

- 913 AVG\_READING\_8\_SCORE

Predictor Coef SE Coef T P

Constant -41688 386720 -0.11 0.914

TOTAL\_REVENUE 5881 22730 0.26 0.796

FEDERAL\_REVENUE -5881 22730 -0.26 0.796

STATE\_REVENUE -5881 22730 -0.26 0.796

LOCAL\_REVENUE -5881 22730 -0.26 0.796

TOTAL\_EXPENDITURE -0.02539 0.02004 -1.27 0.205

INSTRUCTION\_EXPENDITURE -0.00411 0.01652 -0.25 0.803

SUPPORT\_SERVICES\_EXPENDITURE 0.04815 0.02511 1.92 0.055

OTHER\_EXPENDITURE 1.09851 0.04562 24.08 0.000

CAPITAL\_OUTLAY\_EXPENDITURE 0.10172 0.02396 4.24 0.000

GRADES\_PK\_G -1.6997 0.3538 -4.80 0.000

GRADES\_KG\_G 0.821 1.072 0.77 0.444

GRADES\_4\_G 4.656 3.483 1.34 0.182

GRADES\_8\_G 2.558 2.606 0.98 0.326

GRADES\_12\_G -9.328 1.342 -6.95 0.000

GRADES\_1\_8\_G 0.3006 0.6721 0.45 0.655

GRADES\_9\_12\_G -0.0745 0.6556 -0.11 0.910

GRADES\_ALL\_G 0.15102 0.03004 5.03 0.000

AVG\_MATH\_4\_SCORE -7955 1909 -4.17 0.000

AVG\_MATH\_8\_SCORE 4515 2196 2.06 0.040

AVG\_READING\_4\_SCORE 4329 2008 2.16 0.031

AVG\_READING\_8\_SCORE -913 1210 -0.75 0.451

S = 181099 R-Sq = 96.5% R-Sq(adj) = 96.5%

**MISSING VALUE - OUTLIER**

The regression equation is

ENROLL = 801800 + 9759 TOTAL\_REVENUE - 9759 FEDERAL\_REVENUE - 9759 STATE\_REVENUE

- 9759 LOCAL\_REVENUE - 0.0596 TOTAL\_EXPENDITURE

+ 0.0936 INSTRUCTION\_EXPENDITURE + 0.120 SUPPORT\_SERVICES\_EXPENDITURE

+ 0.853 OTHER\_EXPENDITURE + 0.222 CAPITAL\_OUTLAY\_EXPENDITURE

- 3.10 GRADES\_PK\_G - 0.85 GRADES\_KG\_G - 8.90 GRADES\_4\_G

- 5.14 GRADES\_8\_G - 7.26 GRADES\_12\_G + 2.68 GRADES\_1\_8\_G

+ 0.056 GRADES\_9\_12\_G + 0.267 GRADES\_ALL\_G - 9797 AVG\_MATH\_4\_SCORE

+ 5730 AVG\_MATH\_8\_SCORE + 1570 AVG\_READING\_4\_SCORE

- 1373 AVG\_READING\_8\_SCORE

Predictor Coef SE Coef T P

Constant 801800 451258 1.78 0.076

TOTAL\_REVENUE 9759 18052 0.54 0.589

FEDERAL\_REVENUE -9759 18052 -0.54 0.589

STATE\_REVENUE -9759 18052 -0.54 0.589

LOCAL\_REVENUE -9759 18052 -0.54 0.589

TOTAL\_EXPENDITURE -0.05956 0.02204 -2.70 0.007

INSTRUCTION\_EXPENDITURE 0.09358 0.02152 4.35 0.000

SUPPORT\_SERVICES\_EXPENDITURE 0.12000 0.02740 4.38 0.000

OTHER\_EXPENDITURE 0.85265 0.04520 18.86 0.000

CAPITAL\_OUTLAY\_EXPENDITURE 0.22189 0.02524 8.79 0.000

GRADES\_PK\_G -3.0965 0.5040 -6.14 0.000

GRADES\_KG\_G -0.850 1.164 -0.73 0.465

GRADES\_4\_G -8.899 3.744 -2.38 0.018

GRADES\_8\_G -5.136 2.976 -1.73 0.085

GRADES\_12\_G -7.256 1.394 -5.21 0.000

GRADES\_1\_8\_G 2.6809 0.7118 3.77 0.000

GRADES\_9\_12\_G 0.0564 0.6837 0.08 0.934

GRADES\_ALL\_G 0.26745 0.03448 7.76 0.000

AVG\_MATH\_4\_SCORE -9797 1786 -5.48 0.000

AVG\_MATH\_8\_SCORE 5730 1984 2.89 0.004

AVG\_READING\_4\_SCORE 1570 1885 0.83 0.405

AVG\_READING\_8\_SCORE -1373 1327 -1.03 0.301

S = 143394 R-Sq = 92.7% R-Sq(adj) = 92.6%

**MISSING VALUE - NORMALISASI**

The regression equation is

0 = - 0.000000 + 1.00 1 + 1.00 2 + 1.00 3 + 0.000000 4 - 0.000000 5 - 0.000000 6

- 0.000000 7 - 0.000000 8 - 0.000000 9 - 0.000001 10 + 0.000003 11

- 0.000003 12 + 0.000000 13 - 0.000000 14 + 0.000000 15 + 0.000000 16

- 0.000064 17 + 0.000130 18 - 0.000195 19 + 0.000080 20

Predictor Coef SE Coef T P

Constant -0.00000002 0.00000004 -0.57 0.567

1 1.00000 0.00000 25978241.26 0.000

2 1.00000 0.00000 24751324.98 0.000

3 1.00000 0.00000 25284757.49 0.000

4 0.00000003 0.00000003 1.11 0.266

5 -0.00000004 0.00000003 -1.28 0.201

6 -0.00000002 0.00000003 -0.76 0.448

7 -0.00000000 0.00000002 -0.22 0.829

8 -0.00000002 0.00000003 -0.83 0.409

9 -0.00000045 0.00000052 -0.88 0.382

10 -0.00000076 0.00000100 -0.76 0.447

11 0.00000313 0.00000402 0.78 0.436

12 -0.00000277 0.00000279 -0.99 0.321

13 0.00000004 0.00000180 0.02 0.981

14 -0.00000006 0.00000070 -0.09 0.931

15 0.00000020 0.00000079 0.25 0.800

16 0.00000002 0.00000002 1.03 0.303

17 -0.0000638 0.0005186 -0.12 0.902

18 0.0001305 0.0006772 0.19 0.847

19 -0.0001954 0.0006787 -0.29 0.774

20 0.0000798 0.0002084 0.38 0.702

S = 1.461064E-08 R-Sq = 100.0% R-Sq(adj) = 100.0%

**MISSING VALUE – OUTLIER - NORMALISASI**

The regression equation is

0 = - 0.000000 + 1.00 1 + 1.00 2 + 1.00 3 + 0.000000 4 - 0.000000 5 - 0.000000 6

- 0.000000 7 - 0.000000 8 - 0.000001 9 - 0.000001 10 + 0.000004 11

- 0.000004 12 - 0.000000 13 - 0.000000 14 + 0.000000 15 + 0.000000 16

- 0.000155 17 + 0.000238 18 - 0.000229 19 + 0.000076 20

Predictor Coef SE Coef T P

Constant -0.00000003 0.00000004 -0.67 0.501

1 1.00000 0.00000 22886713.02 0.000

2 1.00000 0.00000 21869578.42 0.000

3 1.00000 0.00000 22369539.26 0.000

4 0.00000004 0.00000003 1.14 0.256

5 -0.00000004 0.00000003 -1.26 0.208

6 -0.00000002 0.00000003 -0.72 0.471

7 -0.00000000 0.00000002 -0.18 0.861

8 -0.00000003 0.00000003 -0.80 0.422

9 -0.00000050 0.00000060 -0.84 0.399

10 -0.00000087 0.00000110 -0.79 0.430

11 0.00000367 0.00000466 0.79 0.432

12 -0.00000356 0.00000329 -1.08 0.279

13 -0.00000011 0.00000203 -0.05 0.958

14 -0.00000005 0.00000081 -0.06 0.952

15 0.00000030 0.00000090 0.34 0.735

16 0.00000002 0.00000002 1.11 0.269

17 -0.0001549 0.0006598 -0.23 0.814

18 0.0002377 0.0008742 0.27 0.786

19 -0.0002292 0.0009087 -0.25 0.801

20 0.0000757 0.0004059 0.19 0.852

S = 1.542193E-08 R-Sq = 100.0% R-Sq(adj) = 100.0%

Maka, dari keempat model di atas didapatkan bahwa model yang memberikan hasil terbaik adalah metode ke-empat yakni **MISSING VALUE – OUTLIER – NORMALISASI**, hal ini dilihat dari nilai R-Sq-nya yang mana semakin besar maka semakin baik, serta nilai S-nya yang berarti semakin kecil, semakin baik.